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Pawphones of the Planet

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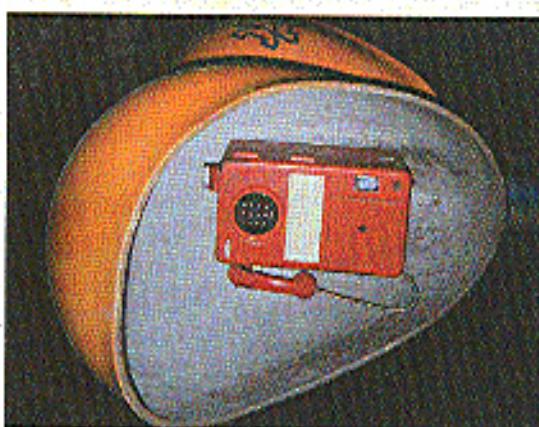


EL SALVADOR



Knights Hawk & Cybernet Nightsuit

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COME AND VISIT OUR WEB SITE AND SEE OUR VAST ARRAY OF PAINTPHONE PHOTOS THAT WE'VE COMPILED: <http://www-2002.com>

STAFF

Editor-In-Chief
Emmanuel Goldstein

Layout
Scott Skinner

Cover Design
Shawn West, Mazzy

Office Manager
Tampruf

“Attacks on Defense computer systems are a serious and growing threat. The exact number of attacks cannot be readily determined because only a small portion are actually detected and reported. However, Defense Information Systems Agency (DISA) data implies that Defense may have experienced as many as 250,000 attacks last year. DISA information also shows that attacks are successful 65 percent of the time, and that the number of attacks is doubling each year, as Internet use increases along with the availability of hackers' and their tools.” - General Accounting Office report entitled “Computer Attacks at Department of Defense Pose Increasing Risks”. It was later disclosed that the statistics were based on staged attacks from within the military.

Writers: Bernie S., Billst, Blue Whale, Commander Crash, Eric Corley, Count Zero, Kevin Crow, Dr. Delain, John Drake, Paul Estor, Jason Fairlane, Mr. French, Bob Hardy, Thomas Icom, Kingpin, Kevin Minnick, NC-23, Peter Rabbit, David Ruckerman, Silent Switchman, Thee Joker, Mr. Upsetter.

Network Operations: Plumber Optik
Voice Mail: Neon Samurai.
Webmaster: Kiratay.

Inspirational Music: Subdoh, Iggy, Specials, Tribe, Whale. **Shout Outs:** Zack, Zap, 5m0k3, Cybrjnyky, Coldfire, Dodger, Rogue Agent, R2, Mudge, the WBAI listeners.

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FALLOUT

Some nightmares never seem to end.

This has certainly seemed the case with the ongoing saga of Ed Cummings (Berrie 5). We've devoted many pages to this horrific tale since it began in March of 1995. And we've learned so very much.

To summarize what we've already told you, Cummings, a 2,000-watt fer for years, was arrested for possession of telecommunications devices that could be used for fraudulent purposes. He was never accused of overrunning any fraud, however. The United States Secret Service managed to have him impounded for seven months on a charge that virtually any electronic item person could be guilty of. It was widely believed that the Secret Service had been embarrassed by Cummings' disclosure to a Fox news crew of unflattering pictures of them - pictures that had been given to him by a friend and which we have since made available on our website.)

On Friday, October 13th, 1995, the nightmare ended. Ed Cummings was released from a federal prison where he had spent time with murderers and other "non-technology-oriented" criminals.

He quickly put his life back together again, securing a job with a phone company and speaking of his ordeal at various conferences.

But then, the Secret Service came back. It seems that a couple of years earlier, Cummings had had a little run-in with a local police department when he picked his car illegally and had it searched by a local cop who didn't understand some of the technical papers and apparatus within. The cop took

Cummings and his two friends to the station and proceeded to question them. They were never placed under arrest and, when they left, one of Cummings' friends took the sheets of paper the cop had been interested in and also removed the batteries from a telephone dialer, presumably to erase private phone numbers. (For some reason they had been left alone with those bits of "evidence".) The cop discovered this shortly after the three of them left. He managed to find them again and, since nobody was willing to say who had done the tampering, the cop charged Cummings since the car belonged to him and he was arrested at the one "in charge". And Cummings never saw the need to set the record straight, since it was a ridiculous manner, almost funny, accusations.

He was sentenced to probation. Now, after being arrested by the Secret Service, he was in violation of that probation.

arrested by the Secret Service, he was in violation of that probation.

In January of 1996, with considerable pressure from Secret Service agent Tom Varney, Cummings was put back in prison with an insanely high bail of \$250,000 while he awaited sentencing. And because of his high bail, he was kept with the most violent and dangerous offenders. When he was finally sentenced in March to 6-24 months, it almost seemed like a relief because an end to the ordeal was at last in sight. And, while technically he could be held for two years, it was virtually unheard of for prisoners not to get parole after their minimum time was up, unless they had disciplinary problems. One thing Cummings had going for him was an impeccable within the prison system and the Secret Service were quite upset with Cummings' outpourings on his case. His weekly updates on *WDAL's Off The Hook* and the coverage in *2600* as well as the smattering of press coverage in the mainstream media was a real thorn in their side.

Jane came and went with no parole hearing. And when the hearing finally took place, on July 2nd, Cummings was told that processing only took place once a month, so nobody would even touch his case until August. Such senseless logic appears to be the norm in America's prisons. But in this case, prison authorities seemed intent on making Cummings' life as miserable as possible.

One of the best examples of this occurred in July when he was finally moved to a minimum security facility and allowed to participate in a "voluntary" community service program. (If you don't believe you get sent back to the maximum security prison.) During his brief period, he was contacted by Rob Bernstein, a reporter for *2600* (Berkebend, who wanted to write an article on his case. Bernstein called the prison, asked for, and received, the fax number of the facility where Cummings was working. His intention was to fax a copy of the article to Cummings before it was finalized so that any mistakes would be corrected. At the time, it seemed logical and in the real world it would have been.

But this was not the real world. When it was, it was obvious that a fax had been sent to Cummings (without his knowledge or consent), prison officials immediately threw him back into the maximum security prison at Bucks County. They claimed he had tampered with the telephone system by receiving the fax and that, as a result, his time in prison could be increased by nine months.

Cummings appealed this ridiculous judgment as any semi rational person would. They kept him in maximum for 19 days, nine days more than they were supposed to. His appeal was denied and, at the same time, he was suddenly subjected to shackles and was being woken up for interactions like having too much visiting material or one too many bottles of shampoo. Each of these had the potential for getting his parole denied. All of a sudden his impeccable behavior record had been tarnished.

Believing he was being harassed, Cummings filed a grievance. Right after it was denied, he found

it was obvious to everyone that the real reason was to get rid of him.

Then things got much worse. Within a day Cummings was viciously attacked by a violent inmate. He had his jaw kicked in and his arm shattered by the time the guards got around to stopping it. His jaw was shattered, he was then thrown into the infectious diseases ward at Lehigh County where his medical care was virtually nonexistent. They even refused to give him painkillers. And strangely enough, all of the phone numbers Cummings had called in the past were blocked. If ever anyone was being given a hint to keep their mouth shut, this was it.

But despite all of this, Cummings refused to be silenced. The story of what was happening to him got out and this time it got people so angry that there was nothing left to do but take action. In an unprecedented move, visitors to the *2600* web site, listeners of *WDAL's Off The Hook*, and hackers around the planet joined forces to end the nightmare once and for all. A mailing list was started which quickly got hundreds of subscribers. A voice mail box was set up at 2600. Volunteers worked around the clock. People who had never been part of the hacker world began to get involved. It was clear that this was no longer a hacker issue but rather a very significant human rights issue. Even members of the mainstream media began to take an interest. (Sadly, the

Civil Liberties Union still didn't get involved.) Within a few days, a demonstration outside the Northampton County prison and courthouse (where Cummings had now been transferred) had been organized. After nearly two years, the Berrie 5 case had finally become a classic example of miscarriage of justice to nearly everyone who heard about it.

The strain on the authorities must have been tremendous. The number of phone calls, faxes, emails, and mail to Pennsylvania prison and government offices, as well as the Secret Service and congressional offices, was unprecedented.

And suddenly, on Friday, September 13th, 1996, the nightmare ended. Ed Cummings was released to the public immediately. And, while still subject to parole regulations, it was apparent that the Secret Service was freed out of the power to put him back in prison. Here was a clear example of people power. In the first place, much work remained to be done. The effects of this torment won't soon go away.

Apart from facing permanent disavowal, Cummings has had his life almost completely destroyed by these actions. There are many pieces to pick up. And, for the rest of us, there are many people we must hold accountable for this travesty. These questions demand immediate answers. Why was the Secret Service (particularly Special Agent Tom Varney of the Philadelphia office) so intent on imprisoning Ed Cummings? Why were they allowed to have such an undue influence on over procedures? Why did Judge Jack Pella (Northampton County, PA) set bail at such high levels for such a trivial nonviolent offense? Why did the Bucks County Correctional Facility have Cummings transferred into a prison for violent offenders and what exactly did they mean by "protective custody"? And, finally, how did we ever allow the federal government to pass a law that can put someone in prison for possession of electronic components without any evidence of their being used to commit a crime (Title 18, U.S.C. 1029)?

While we look for answers, we will also need to keep track of the injustices facing all the others in prison, now and regularly, in the future.

We can hope that this tragic case and the tremendous response to it will be enough to teach the authorities an unforgettable lesson and keep it from happening again. So much, we doubt it.

Searches and Arrests

by Keyser Sone

This article was prompted by the piece titled "Avoiding Suspension" by Ade in the Spring 1996 issue. There were a number of things legally wrong with it, and instead of rippling it apart, I figured I'd just tell you what the law is. Note: I am a licensed attorney (so this is the real thing), and am writing under this alias for what should be obvious reasons. This article in no way gives legal advice; it merely points out what the law is, what the police can legally do to you, and what your rights are. Any words in quotes are from legal cases, the details of which I won't bore you with.

Searches

Probable cause

This is what the police need in order to search you. Probable cause is a "reasonable belief" (by the cops) that what they have found is evidence of a crime. This can be evidence of any crime, not just for the one they're currently investigating.

Searching your house, apartment, etc.

In order for the police to search your place, they need a search warrant. A search warrant contains three things (if you care to read it, and you should, to make sure that it is a search warrant, and that the information on it is correct): the crime committed, the evidence they're looking for, and the location that they're going to search.

The location covers basic stuff such as your name and address (as well as the specific location in the home where they're going to be looking) - if either one of these are wrong, call them on it because there could, for example, be another person named "Smith" in your building, and they just got the wrong one.

The police can look anywhere the thing they are looking for will reasonably fit. The smaller the item is, the more places they can look. For example, cops can look just about anywhere for drugs (since drugs can be put into small packages and hidden anywhere), but they're not going

to look in the toilet tank for a stolen TV (because it won't fit). They can also seize anything that's found in plain view, like on a table, regardless of whether the warrant mentions that item.

Just a little bit about "no-knock" warrants. There are only three instances when the cops can bust down your door when they have a search warrant: if there's a danger of escape, if there's a possibility of evidence destruction (like flushing something down the toilet or erasing a disk, though the computer-based reasons like erasing disks, etc. have not been tested in court, it seems likely to me it could be a valid reason), or if there's likely to be a danger to the officers present.

Searching your car

An officer still needs probable cause to search your car, but does not need a search warrant. Once he has probable cause to search the car, he can go anywhere in the car, including the trunk and any packages in the car.

If your car happens to be impounded and taken to an impound lot and the contents are inventoried, the cops don't need probable cause. They can seize anything they find that's evidence.

Stopping you on the street

This is what's known as a "stop and frisk". You can be stopped and questioned by the police on the street if they have a "reason to suspect" that there is "imminent criminality". This is sort of a gut-instinct type of call by the observing officer - if he thinks you might be up to something, he can stop you and ask you questions.

Whether or not you'll be frisked depends on the situation you're in; basically it's the officer's call. A frisk is the "pocketing down of exterior clothing". If the cop finds something suspicious, he suddenly has probable cause and can search you on the spot, or arrest you if it's that bad.

Arrests

An arrest in your home

In order for you to be arrested in your own home, the police need an arrest warrant, which

states what crime was committed and who they think did it. If the police have an arrest warrant, any evidence in plain view can be seized. (They don't need a search warrant for stuff in plain view in this case, because the arrest warrant gives them the same legal rights.)

If you are arrested, the cops can search you and any area within your "immediate lodges, reach, or grasp". Basically, this means that they can only search the area where you could reasonably reach to destroy evidence or grab a concealed weapon. This usually limits the search in this case to the room in which you're arrested.

The only time the cops can search the rest of the home without a search warrant is if they've come to arrest someone else in addition to you; then they can look wherever that person could hide. (An arrest in someone else's home)

The police must have a search warrant to enter someone else's home to arrest you if you're there and not in your own home. (This is in addition to the arrest warrant for you.) An exception to this case is if you're fleeing and they follow you into that person's home - then they don't need a search warrant.

Post-Arrest Stuff

Miranda warnings

We've all seen this in cop TV shows or movies: when someone is arrested, the cops read them their rights. Believe it or not, this is not required at the time of arrest. It's been drummed into our heads for so long that we think they got it right, but they didn't. You only need to be read your rights when you are undergoing "custodial interrogation".

"Custody" is defined as being under "any significant restraint" or being placed in a "compelling atmosphere" where you might involuntarily waive your rights. Basically, this means that you've been arrested, you can be in a police car or at the police station, "interrogation" is not limited to questioning, it covers any statements made by another person which "might reasonably elicit an incriminating response". An example of this would be if two other people were talking and they say something that you would usually respond to; just keep quiet (see below).

Things that don't violate your rights

There are certain things that can be done after you've been arrested that do not violate your rights, even though these things seem like they would. They include: taking your picture, fingerprinting you, taking your measurements, getting a handwriting sample, having you speak a certain phrase, or moving around in a certain way (like with a limp).

Generally speaking, that's it. There's obviously a great deal more to this subject, but you don't really need to know all the nuances. Just knowing what rules the cops play under and what they would be allowed to do is important. Your rights are not absolute. I'm thinking about doing an article about computer crime laws (these laws usually cover telephony issues as well), and if this article doesn't get my head taken off, you should see it in the near future.

Before the police can question you, they must read you your rights. Those rights are:

1. You have the right to remain silent.
2. Anything said can and will be used against you in court.

3. You have the right to consult with an attorney prior to questioning.

4. You have the right to have an attorney present during questioning.

5. You have the right to an appointed attorney if one cannot be retained (the court will appoint an attorney to you if you can't afford one).

Numbers three and four may be combined into one statement that is read to you, but it's easier to grasp if they're separated.

Invoking your rights

Now that you know your rights, how are they enforced? Very simple: after you've been read your rights, tell them that you wish to speak to an attorney. Once you've told them that, they cannot question you, and they can't come back before you've spoken to an attorney to ask you any questions, so the best thing for you to do is to keep quiet until you've spoken to an attorney. And do not do what The Prophet suggested (Letters, Spring 1996) and lie; think about it - you're in deep shit already and lying always makes things worse for you. (I'll repeat it because it's that important: keep quiet until you've spoken to an attorney.)

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Hacking the SCC OS

by D-Day

First off, let me say that I only have access to the SCC OS from a terminal at my office. It is not at OS you can call up with a modem - it is site only so therefore, you have to be at the location in order to hack this OS. It is simple to do, so don't expect much from it. This article is basically pointed towards newer hackers and experienced hackers looking to gain info or access.

First, let me explain SCC. SCC is a business OS used for keeping records and making securities' jobs easier. You can find it at doctors', offices, lawyer firms, and places of that sort. It is very changeable, so you may have trouble spotting an SCC system.

SCC stands for Site Client Control. It is a DOS program, so an SCC system has DOS somewhere on the hard drive. I have not found any other SCC releases running off any other OS than DOS, so you might want to check up on your DOS commands before attempting an SCC system. Here is a list of ways to shell out of DOS from an SCC system without having to crack the password.

Two Methods to Shell Out

On an SCC system, every unit has the option to use DOS commands. Just choose this option, then click "DIR". It will show a command line, usually in a red bordered box. Just type dir.*. It will go to DOS and type out the command, similar to a batch file. Then, it will discover that dir.* is not a command and will say "TERMINATE BATCH JOB? Y/N?" Choose Yes. You should now be sitting at a standard DOS prompt.

Second Method: If the SCC system you are targeting doesn't have the DIR option, then try this method. Choose the "Shell to DOS" option by pressing F5. It will say "ENTER PASS-WORD". Then just enter something wrong. It will go back to the Main Menu. Then do this same option again. And again. After about 10 times, it will say SYSTEM HALTED. Then, just press CTRL BREAK. This is tedious, and it may take more time than you have, so method one is better!

What To Do Once You've Shelled Out

Go to the root directory of the hard drive that SCC is installed on. Get the file called *seed.scc*. The * represents the site name. Every SCC system has a unique site name. It will usually be a number. Just look for anything with *scc.*.da*, because sometimes the filename is changed. Once you have this file, you have the password file. Similar to UNIX, yes *any* SCC passwords are much easier to decrypt! How? When you look at the *seed.scc* file with a text editor, you should get something similar to this:

```
Start of file:scc240130.dtc
SCC data file/site license #1005
(Give name should never be altered)
*****+*****+*****+*****+*****+*****+
scc data file/site license #1005
*****+*****+*****+*****+*****+*****+
upper:(345445)
crash:[3936]
new:[]
crash:[]
exit:[]
```

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you get the number 9. Starting to see now? We couldn't believe how easy it was to crack these password files. A password tracker is not needed, but we wrote one anyway, and it broke an SCC system with 400 users in 22 seconds!!! That's how easy the algorithm is! Now, I could make a "KILL POWER ACCOUNTS" and choose it. It will ask for a password. Enter the upper account's password. In this case, FORTRAN. If it * da file, you need to crack certain passwords to get high access. Here is a list of permanent accounts on an SCC system plus an explanation. These accounts are always on an SCC system!

upper: highest access - the "root" account, mem or memory; the memory manager account.

minroot: the maintenance account. This usually doesn't have a password.

before: the backdoor maintenance in case of a crash.

clip: the clip account to "clip" data.

These accounts are the only permanent accounts. In our simulated list of accounts, charla is just a user, probably upper's secretary.

Once you have upper access, what do you do? Since SCC is a business OS, why don't you find out this business' secrets?

How To Get Files

Once you are logged in under upper, go to the main menu. Then choose the option "Word Process or Text Editor". This is like vi. Just open files. You usually won't get passwords, but if you do, just enter the same password you used to log in. Just open text files and read out! If you wanna save them to a disk, exit the text editor and go to File Systems and choose save files, then just save them to your disk drive.

Now you have all you need: files, access, so what? Well, if you have a vendetta against the system, why not crash it? Why not?

Crashing an SCC System

First, in order to crash it, you need maintenance access and upper access. First, log in with upper. Then choose "Executive Options". Then click "Enable Maintenance" and enter the password FORTRAN. The code would be 4945416. Look at the letter F on your keyboard and follow it up. See how it goes to R and then to 4? Now, the letter O would be 9. Follow O up and

you get to the main menu, choose the option "System Check" and run that option. Wait until the counter has reached zero. If it finds any problems, do not fix them, just let them linger. Then go back to the main menu. Choose the option "KILL POWER ACCOUNTS" and choose it. It will ask for a password. Enter the upper account's password. In this case, FORTRAN. If it * da file, you need to crack certain passwords to get high access. Here is a list of permanent accounts on an SCC system plus an explanation. These accounts are always on an SCC system!

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you get to the main menu, choose the option "System Check" and run that option. Wait until

Only the first one is lost. In the old days, people would insert a string in order to get it back, but that got old pretty fast. Nobody even thinks about trying it anymore.

Some time ago, long distance calling required a special "ficha". I say some time ago because these were more expensive and since then the phone people started to understand how easy it was to "pbreak it". So a card was introduced in order to replace the special "ficha". One can choose between a 20, 50, 75, or 90 unit card, each unit being a three minute call. But the price, that's something. One pays \$4.50 for a 90 unit card which runs out faster than a bullet.

There's a long distance service, called DDD, which means Distance Direct Dialing. One punches all the numbers and gets a sound that the line is busy. How to overcome that? Try again. But if you're smart, you'll punch the zone codes slowly, trying to do it as if you were a modem, punching a key after each don't-know-how-many-seconds-or-milliseconds. It's a matter of concentration. Can't do that whether angered or in a hurry. Just like Zen. Think about the tree in the woods, does it make noise when it goes down? Sounds complicated? Yeah, but it works and it helped me to complete calls when people gave up after repeating the dialing for half an hour. It's the same thing for a collect call. It's

on-line services. Nothing to say about that. Who's mailboxes are a hit. Only \$10 a month.

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	-----

or drives, some people claim that by cutting on the corner of the card or on some special place, an infinite card can be created. Others claim that by soldering with care, it is also possible to achieve the same thing. The official explanation is that the cards have some micro-fuses that the phone "burns" as the time and the talk go by. But sometimes, the real "phreaking" is translating a long distance phone call.

cost of a phone line is paranoid about being Most of the people who because they're living far away from home.

Loss of people try and sometimes succeed using others people's phones in order to dial phone sex.

when one needs to dial long distance. It's 63 cents per minute to call long distance, but that's at the Central or at home. In public phones, the number of units goes a bit faster, it seems. Only those Centrals are open on Sundays, when one pays only 90 cents a minute. That in a town of 11 million. It's either join the queue or pay more money for those 90 unit cards.

tough, no matter what side of the line you're on. (Once I had to call an address 1500 kilometers north in order to ask people there to deliver a message 1500 kilometers further north.) But I have to say that it works, if one has enough time to try and do it the right way. In the end, through constant practice (because every time you don't get a line you keep practicing), it's possible to

different. So, any malfunction in the phone system would grow old pretty fast... in fact, the blue phones that used special "Picass" would be vandalized, once in a while, by those people, who would break them down in order to call their relatives back home. Card technology is attractive because the phone doesn't carry anything that might be stolen. So this sort of physical hardware



you're on. (Once I had to call all 1500 kilometers north in order to ask people there to deliver a message 1500 kilometers further north.) But I have to say, works, if one has enough time to try it the right way. In the end, through practice (because every time you do a line you keep practicing), it's possible to guess the right intervals between each pressing.

Right now, AT&T and other phone companies are trying to get in. There is even some advertising of Brazilian people who claim to know. Will it succeed? Nobody knows. It's possible that the state phone company is correct on the use of things like Blue Beep. Paranoid about being caught roaming through public phones is it a safe thing. The cost of a phone line is a big reason. Most of the people who do, do because they're living far away from home.

Losses of people try and sometimes succeed using others' people's phones in order to dial phone sex, horoscopes, and other on-line services. Nothing to say about that. Voice mailboxes are a hit. Only \$10 a month.

Brazilian pluckers don't trade their seccos because of the fear of things getting fixed. If the phone company finds out, sure they'll change. Thousands and thousands of people go south, trying to escape misery. Every one of them gets homesick, for North and South are sometimes 99 percent A wise man

THE DIAL PULSER

by Golem of Sprague

Previous articles have mentioned the MF type blue box, but there hasn't been mention of something called a "Rotary SF" or "dial pulser". I remember seeing these devices at someone's (name withheld) cell phone "lab" in 1990. Yes, they were the standard issue blue Bell System boxes powered by two "D" cells (the same olive drab Bell batteries that used to come in the Hess toy trucks, you Gen-Xers), and on the outside, a button for line seizure and a rotary dial for pulsing.

The theory of dial pulsing is nothing more than the tone equivalent of regular rotary dialing. This goes back to a system that predates R1 called CCITT 2 (C2). This

used 600 Hz for make and 750 Hz for break, which simulated rotary dialing over long distances where a D/C loop is impractical. At the risk of boredom, I will mention how R1 uses 2600 Hz to indicate trunk on hook and silence as trunk off hook. What happens when 2600 Hz is pulsed at a regular rate? On-hook, off-hook, on-hook, off-hook... Gee, it sounds like pulse dialing, no? Yes it is, but over a trunk which sees this 2600 Hz pulsing like a subscriber loop sensing interruptions of rotary dialing. This system is simpler than MF signalling for its use of only one frequency and its lack of registering tones (11, 12, K1, K12, ST). However, I know of no places in the US (perhaps Alaska?) that still use C2 or R1 that will accept dial pulsing.

'WARNING FROM THE CORPORATE PROPERTY CULTURE:

' 'Educational purposes only'
' 'Rotary SF' Generator
' o.k.-o. Tap'n Crunch Whistle, remember?
' Uses PC speaker to generate pulsed 2600 Hz
' to dial over trunks involving SxS and crossbars.
' This is written in Turbo BASIC; it may need modifications
' For use w/ Quick BASIC or other structured BASICs.

' Written by KeyPulse & Start
' code starts here:
'
cls
do
line trout "Phone Number: " ;phs
if phs="" then goto xit:
sound 2600,15
delay 2
for t=1 to 1
bsound(phs,t,1)
digit=val(t\$)
'convert to numeric

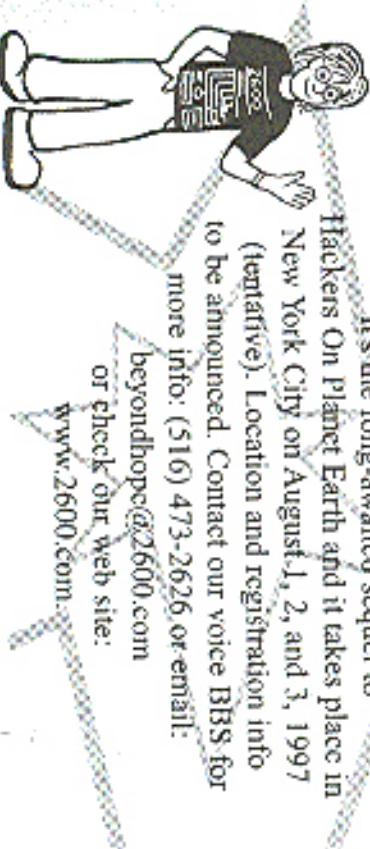
```
select case b$  
case "0"  
    digit=10  
case "1"  
    go to skip  
case else  
    end select  
    ?b$;  
    for x=1 to digit  
    call diopulser  
    next  
    delay .5  
    skip:  
    next  
?  
loop  
xit:  
end  
sub diopulser  
  beeper1...  
  sound 2600,1.2  
  delay .18  
end sub
```

' loop back
' jump point for
' program termination
' this is the heart of it
' sound 2600 for 40 ms
' delay for 60 ms
' that's all

' my advice:
' have fun - don't get caught
' remember: the president,
' the currency,
' and the phone system

B E Y O N D H O P E

It's the long-awaited sequel to Hackers On Planet Earth and it takes place in New York City on August 1, 2, and 3, 1997 (tentative). Location and registration info to be announced. Contact our voice BBS for more info: (516) 473-2626 or e-mail: beyondhope@2600.com or check our web site: www.2600.com.



THE GI GFT2200 POWER BOX

by Active Matrix

Recently my cable company upgraded its system and installed new "power boxes" in subscribers' homes. Also, they replaced all of the underground cable in my town with fiber optic cable to facilitate two-way communications. This upgrade to "interactive television" is slowly spreading throughout cable companies in the entire U.S. Fiber optic cable is being laid, and slowly but surely more and more cable subscribers will be getting new features. The boxes our local cable company is using are General Instrument (same company who makes the Jerrold boxes) GFT2200s. I don't know if these will be the standard, but you can expect other brand-name boxes with the same features.

The GFT2200 looks a hell of a lot nicer than your typical chunky cable box. It is a bit larger and sleeker, and has a certain hi-tech look to it. The box is capable of two-way communications. Unlike old fashioned addressable boxes, which could only receive signals from the cable company, this box can send signals to the cable company as well as receive them. This facilitates instant ordering of pay-per-view without making any phone calls, and things like TV polls you can answer. On the back of the box are your two typical cable input coax connectors, plus left/right stereo audio jacks, and a composite video jack. There is also an IR Blaster plug and an IPRV connection (the latter works with the Starfone option, see below). Finally, there is a metal plate where optical circuitry may be added. The manual mentions Starfone and Starview as two options to contact there. After looking up some info at GI's web site, I found out that the Starfone option allows you to hook your box up to your phone line to make a standard addressable box act like a two-way one. Why this option would be avail-

able on a standard two-way box I don't know.

I couldn't find anything out about Starview. I asked any trusty cable company about these options. After being put on hold for half an hour I was connected to a rep who had no clue what I was talking about.

System Features

The GFT2200 has a lot of nice on-screen features. When you flip channels, the name of the channel you're on is displayed at the top of the screen. At the bottom is a box that tells you what show is on, when it started, and when it will end. The remote control has a four direction arrow pad, pushing the right arrow shows you what show is on next. A press of the Info button will bring up a window that will describe the program in depth. If it's a movie, the rating and the actors in it are also included with the description. The box has a program guide, which basically will show you in a table format what is on at any time on any channel. You can even go ahead up to seven days. Looking through the guide is done with the arrow buttons, a page up/down button, and a day up/down button. Because of memory limits, in depth program descriptions are only available for current and subsequent programs, if you go ahead too far you'll get no more than the show's name and a "Sorry no data available" when you press Info. As far as pay-per-view goes, all you do is flip to the channel showing the movie you want. You have from 10 minutes before to 10 minutes after the movie starts to order. The screen turns black, and the letter E for event flashes on the box's display panel. If you press the Select button on the remote a confirmation will appear, another press of select and decryption immediately starts. That's why the timeframe is limited to 10 minutes before or after. Earlier than that and you'll catch the credits of the previous movie. A four digit password may be set to

prevent unauthorized ordering. By default it's the last digits of your phone number.

Rugs and Tech Info

Of course with all new technology comes bugs. For instance, a week after I got the power box, the cable company uploaded an updated software revision (erasable ROM in the boxes incidentally) to every power box at around 4 am. It didn't work for everyone though, and 500 boxes were completely screwed up, mine included. You couldn't reset them, change the channels, nothing. They had to actually order 500 new boxes from GI, and replace the messed up ones in each home. The messed up boxes were taken back to the factory to be reprogrammed according to the cable guy who came to replace my boxes. Another annoying thing is that the boxes have to be off to be updated with the latest program schedules. If you leave your box on overnight, you have to unplug it for a few seconds, then plug it back in. Within ten minutes it updates itself.

One final thing is that you must have a strong signal for the boxes to work properly. If you have a splitter in your basement to run cable lines to multiple TVs, which I do, you may run into some problems. I noticed that on the higher channels (80 and up), which are all pay-per-view, I was unable to order a movie with the Select button because the signal was so bad (the higher you go, the poorer reception quality is).

These boxes ain't cheap, the replacement fee for lost ones is around \$300 so I can assume that's what they would list for. The internal architecture according to data on the GI web site is dual processor. The secure processor takes care of message processing and on-screen displays, an 860 MHz timer, and is described as a "smart card" resealable security system. The Feature Expansion Module has a Motorola 68000 chip. This is what takes care of the downloading and updating of program schedules in the guide, with a re-writable ROM. This also handles the pay-per-view ordering. Other features listed

include an optional RS-232 interface for use with a printer, fax, or other serial device. The boxes can be remotely turned into a "lump of clay" by the cable company. Your screen will turn black and a message will say "Your terminal has been deactivated. Please call your cable company." The first time your box is installed, this message comes up and the cable guy has to call his central office and read off a long set of characters/numbers, which I assume is the ID of the particular box. Just wish I had a tape recorder handy then.

No More Secrets

The ability of the box to send and receive signals means more than ordering pay-per-view without calling some automated phone number. It means that your cable company has the ability to know exactly what you are watching all the time. It would be unwise to use a descrambler with this box. I'm sure they'd get suspicious if you were always watching the pay-per-view channel yet never ordering any movies. There is no doubt they have the ability to do so, but do they? I can't say yes or no but I wouldn't be surprised. Just think how much you can learn about a person from what they watch on TV. Their lifestyle, hobbies, marital status, age. I shudder at the thought of the records they would have the ability to keep.

While the new power boxes are very powerful and convenient, there is a definite sacrifice in privacy. Is it worth it? Hard to say, since I'm unsure exactly how much they monitor. With the fiber optic cable Internet cable service will be coming shortly. This means high-speeds of several megabits per second, making ISDN look like a 110 baud modem. I'd be interested in knowing from anyone on the "inside" what type of monitoring techniques, if any, cable companies employ with two-way boxes. Send a letter to 2605 and let us all know what's going on. Expect another article on the Internet cable modem when and if I can get my hands on one. GFT2200. Check it out.

GTE VOICE PROMPTS

(FOUND INSIDE GTE COMPUTERS!)

by Chillin' Bit Boy

001 OH
 002 1
 003 2
 004 3
 005 4
 006 5
 007 6
 008 7
 009 8
 010 9
 011 OH...
 012 L...
 013 2...
 014 3...
 015 4...
 016 5...
 017 6...
 018 7...
 019 8...
 020 9...
 021 SIT1
 022 SIT2
 023 SIT3
 024 SIT4
 025 SIT5
 026 SIT6
 027 SIT7
 028 SIT8
 029 SIT9
 030 A NUMBER THAT
 031 A WORK STOPPAGE
 032 ACCESS CODE
 033 AGAIN
 034 ALL CARRIER CIRCUITS
 035 ALL CIRCUITS
 036 AND
 037 ARE BUSY NOW
 038 AS DIALED
 039 AT THE CUSTOMER'S
 REQUEST
 040 AT THIS TIME
 041 BE COMPUTER
 042 BE GIVEN OUT
 043 BEFORE DEALING

044 BUSINESS OFFICE
 045 BE REACHED
 046 CALL
 047 CANNOT
 048 CARRIER
 049 CHANGED
 050 CHECK THE NUMBER
 051 DEAL A
 052 DEAL AGAIN
 053 DIAL THE Digits
 054 DUE TO
 055 DISCONNECTED
 056 DID NOT GO THROUGH
 057 FOR
 058 FOR ASSISTANCE
 059 FROM YOUR CALLING
 AREA
 060 FROM THE PHONE YOU
 ARE USING
 061 HANG UP
 062 HAS BEEN
 063 HEAVY CALLING
 064 IF
 065 IS
 066 IT IS NOT NECESSARY TO
 067 LATER
 068 MUST BE PRECEDED BY
 069 NEW NUMBER IS
 070 NO LONGER IN SERVICE
 071 NOT IN SERVICE
 072 OR
 073 OPERATOR
 074 PLEASE
 075 PLEASE NOTE
 076 REPAIR SERVICE
 077 READ THE INSTRUCTION
 CARD
 078 RECEIVE CALLS
 079 STAY ON THE LINE AND
 THE OPERATOR WILL
 ANSWER
 080 TEMPORARILY
 DISCONNECTED

081 TELEPHONE COMPANY
 FACILITY TROUBLE
 082 TELU
 083 THE NUMBER
 084 TELEPHONE YOU ARE
 CALLING FROM
 085 THIS IS A RECORDING
 086 TO A NON-PUBLISHED
 NUMBER
 087 TO AN UNLISTED NUMBER
 088 TRY YOUR CALL
 089 UNABLE TO COMPLETE
 YOUR CALL
 090 WE CANNOT COMPLETE
 YOUR CALL
 091 WE'RE SORRY
 092 WHEN CALLING THIS
 NUMBER
 093 WITH
 094 WILL YOU PLEASE
 095 YOU WOULD LIKE TO
 MAKE A CALL
 096 YOU HAVE REACHED
 097 YOU HAVE DEALED A
 NUMBER THAT
 098 YOU HAVE SELECTED
 099 YOU ARE CALLING
 100 YOU MUST FIRST
 101 YOU NEED HELP
 102 YOU FEEL YOU HAVE
 REACHED THIS
 RECORDING IN ERROR
 103 YOU DIALED
 104 YOUR
 105 YOUR NUMBER IS
 106 YOUR CALL IS URGENT
 107 ZERO
 108 ZERO...
 109 IS A PARTY ON YOUR
 OWN LINE
 110 ALLOW THE PHONE TO
 RING SEVERAL TIMES
 BEFORE LIFTING THE
 RECEIVER TO TALK

If a clever hacker knew what to do in GTE's systems, he/she could have copious amounts of fun! "WE'RE SORRY. THE OPERATOR HAS BEEN DISCONNECTED OR IS NO LONGER IN SERVICE"

THE HP LX200

by PsychoWeasel

I consider myself a portable hacker. Yes, I have an AT&T 386 UNIX system and a 486 DX2/30 PC at home, but what fun is there in sitting around the house on my weekends off from work (a.k.a. "the real job")? It is in this frame of mind that over the last year or so I have bought and returned many a PDA and palm-top (I have a nice credit card exception and the fact that my girlfriend works for Radio Shack doesn't hurt either!) including a Zoomer, a Zaurus, a Magic Link, and a Psion. The only PDA I haven't touched is the Newton (made, of course, by Apple... need I say more?). So, why did I finally select the Hewlett Packard LX200 over all others?

The Operating System

This is probably the most important reason I stayed with the HP LX200. All of the other systems listed above use their own proprietary OS which severely limits the user's flexibility and software accessibility. The LX200 runs on DOS 5.0 which gives it access to the largest software library in the world. Anything that can run on DOS 5 and within 600KB of RAM can run on the LX200.

Software Availability:

As I pointed out above, the only limitations on what can run off of an LX200 are the DOS version, available memory, and possibly the processor (a 188C which is equivalent to an IBM XT) and disk space. For example, on my palmtop (equipped with a 6MB fast RAM PCMCIA card) I normally carry my Watson C++ compiler and linker for down-and-dirty trench-hacking, a Telnet program, an offline news reader, encoders/decoders, PGP, a DTMF program, a MIME program that gives IR signals as binary and also sends them (great for all those boomerang talk shows and tell meostyle), and a few other basic necessities. Other PDA operating systems may have SDKs available, but the amount of available software for them will never match DOS.

Built-in Software

Not quite as important as the operating system or availability of software but important nonetheless is what applications are built in. Of course the LX200 comes with your standard array of PDA software (QuickCalc, Lotus 1-2-3, C/C Mail, HP Calculator, a notepad, an address book, and an appointment calendar) but, in addition, it is equipped with a surprisingly powerful file-based database application which can be made relational through the use of the LX200 native macro language, a wonderful terminal program with VT100 and ANSI emulation along with all of the regular transfer protocols (Xmodem, Zmodem, Binary, Kermit, etc.) and Laplink. Since all of this software is run off of ROM it executes blazingly fast.

Expandability

While most PDAs and palmtops' PCMCIA slots are limited to flash RAM, SRAM, and modems, the LX200 allows use of virtually any PCMCIA version 2 cards including flash RAM (currently up to 80MB), modems (up to 28.8 bps, including cellular), Token Rings, even SCSI! As long as there is a DOS driver for it, it'll work. The LX200 also includes a serial port (COM1) and an IR port. The serial port can be used with any standard serial device. All of this makes the expandability of the LX200 rival that of a laptop for only 6 oz. and \$1,500 less.

Battery Life

Time to change the 2 AA batteries again? But it's only been 2 months!! I think I've made my point here. For hackers like me who are on the move a lot and don't want to be bothered with carrying pounds of laptop equipment or are on a low-level choose programmer's salary, the Hewlett Packard LX200 is a great machine to have.

You will have to excuse me now - AOL must pay dearly for kicking me off their system. Lucky I have a database of international SprintNet access numbers in my palmtop hub!

MAXIMUM WOW!

by KIB

CompuServe has formally released their new integrated online service targeted for computer enthusiasts and their kids. While this service provides much less content than the "big four" online services, it does hold exciting possibilities to those of us who desire unlimited Internet access on a highly available national network. Though they do not officially offer this kind of network access to WOW! customers, this article will show you how to expect this reliable, pervasive, and unlimited connection for your Internet needs using the dial-up scripting tool that comes with the CD-ROM version of Windows 95.

Many of us live in areas where there are a number of "Mom and Pop" Internet Service Providers (ISPs) that offer unlimited Internet access for a flat monthly fee. Some of them only give you this rate if you pay up to one year in advance. The primary problems people experience with these small providers are a distinct lack of network reliability, constant busy signals, and inconsistent phone support. Undoubtedly, many of us have had experiences both with the local "Mom and Pop" and even new-comers like AT&T WorldNet. While it's not perfect, WOW! offers their customers unlimited dial-up access to the WOW! service for a flat \$17.95 per month (as of this writing) with the reliability, accessibility, and support of online veteran CompuServe. If you already have a CompuServe account, you get \$3 off the monthly rate. That's cheaper than the annual agreements at most of my local providers for the same access.

WOW! works over CompuServe's newly-upgraded nationwide PPP dial-up network. We can take advantage of this heavy investment for reliable Internet service. WOW! works exclusively over a TCP/IP connection using a new 32-bit version of CompuServe's PPP dialect. CompuServe veterans may notice that the procedures described here can be used with their CIS accounts, but such use is still subject to the service's costly per-minute rates and

should only be used with the unlimited WOW! account.

When the user starts WOW! and enters a password, WOW! looks for a file called "WSOCK32.DLL" to establish a TCP/IP connection with the WOW! data center. This file hooks into the 32-bit dialer (CIDEX) which, in turn, dials up the local CompuServe number, verifies your username and password, and formally opens a connection. The WOW! program, in turn, talks to the WOW! data center through this connection to verify the user name and password information a second time. You are then fully on the Internet, but you're locked into using WOW!'s interface and its crippled version of Microsoft Internet Explorer and their internal Chat system. Yuck!

Okay, this is great if you used to use WOW!, but what about AOL, Netscape, Java, telnet, and a better newsreader? WOW! says you can't use these things at this time, but you really can if you use the built-in Internet tools that come with Windows 95. Follow the steps listed below. Some of the steps may vary depending on when your Windows 95 CD-ROM was released and whether your system has already been set up for Internet access. In any case, this cookbook should give you a good start (this is a hacking magazine, right?). If you own a Macintosh, you can also use a Mac PPP dialer to connect to the Internet side of WOW! using the script below as a template.

1. Install WOW!, set up an account, and write down the access number and your Internet e-mail address. Note: the e-mail address is completely different from the WOW! login ID.

2. If you don't already have it, download and install Microsoft Internet Explorer from <http://www.microsoft.com>. It will put an icon on your desktop called "The Internet", but don't double click on it just yet!

3. Install the "Dial-Up Scripting Tool" located in "AdminApplets\DScript" on the Windows 95 CD-ROM.

4. Click on the Start Menu and go to the Control Panels... Internet... and click "New Connection".
5. Type a name for your new connection - "WOW!" is probably a good idea - and choose the modem you'll be using. If you don't have a modem listed, set it up!
6. Click "Next" and type in the access number you wrote down in step #1.
7. Click "Next" and then "Finish". You're not done yet, though.
8. Click on the Start Menu and go to "Programs... Accessories... Internet Tools... Dial-Up Scripting Tool". If the tool isn't there, look for "Scripter.exe" on your hard disk and run it.
9. Find your new "WOW!" connection in the window on the left. Click it.
10. Type a file name in the text box on the right with an ".SCP" extension (e.g., "WOWSCP"). Click "Edit".
11. Type the following into this new file and save it.

```
proc main
  set port parity even
  set port databits 8
  transmit "<P>" 
  waitfor "Just connect"
  transmit "<P>w"
  waitfor "user ID: "
  transmit $USERID
  transmit "<P>w"
  waitfor "password: "
  transmit $PASSWORD
  transmit "<P>"
```

```
  set port parity none
  set port databits 8
  endproc
```

12. Click "Apply" and click "Close".

13. Remember that "Internet" icon that appeared on your desktop in step #2? Double-click it now. It'll leave it to you to choose all the defaults and obvious choices. Your IP address is "Automatic", and the DNS servers are "149.174.211.9" and "149.174.211.10". Your username is your WOW! email address, complete with the "@" sign and

domain "wownet.com" (e.g., "username@wownet.com"). Finally, the "email" option should be unchecked again. This can also be done from the Internet control panel or the "Dial Up Networking" folder under the "My Computer" icon.

14. Once connected, you can use any Internet application along with the WOW! application. If you want to read news, the news server is "news.wownet.com" or "news.wownet.com". You'll pick "Server Type", Uncheck the "Log On to Newsreader" option and disable "NetBEUI" and "IPX/SPX Compatible". While it isn't necessary, this will shorten login time by four to six seconds because it tells Windows 95 not to bother looking for newservers that don't exist.

If you have trouble, check the help file for Dial-Up Networking and the Internet Control Panel. Some of the Start Menu shortcuts may not be in the same place on every system. If you don't want to use the "Internet" icon, try going to the "My Computer" icon and look for a folder called "Dial-Up Networking". In addition, the login script may change from time to time (it changed once during the first month of WOW!'s existence). Keep in mind that your email address is really "username@wownet.com" and that you can only read your mail from the WOW! application itself. To log into the WOW! application using this new connection, delete the following files from the "WOW" directory: "WSOCK32.DLL" and "WSOCK32.DLLC". This tricks the main WOW! application into using your new connection. You should never have to use the WOW! dialer again!

Hopefully this article helps you save money on your Internet connection and allows you to gain maximum use of your unlimited WOW! account to chat, read news, browse the web with a real web browser, and maybe even chat with a relative on Iphone. You can even use this connection to avoid long-distance charges and busy signals on America Online and The Microsoft Network for the cost of the WOW!

hack your high school

by DayEight

High School. Ah! The years of wonderment and cheap hacking! Hacking your high school's system can be very beneficial to you, and possibly others. First, obtain the list of your school's phone numbers, such as the office, athletics department, nurse, guidance, etc. If you see that the numbers all share the same first six numbers (i.e., 555-5555, 555-5556), then you'll have an easy time. Get a wordlist (I prefer ToorLoc) and scan the numbers in this mini "exchange" until you get a lock hacking from a safe distance. You'll have to pull an inside job. Another alternative is to use a beeper, but those things cost money!

If you find a carrier, you have struck viral gold! Call it up and attempt to logon. If it's UNIX, even better! Schools usually have little or no security, so just cross your fingers and type that magical word, "root". If that doesn't work, try others who SYSADMIN and all the default accounts. Also try PS444, where # equals the number of your school. I have talked to some hackers in other towns who say that this is usually the password or at least Reminds me of Radio Shack screen savers.

If all else fails, set up some sniffers if you can. Also, though I haven't tested it, the gender sniffer in 2600 Vol. 12 # 2, looks like it would work great for those who can't find a carrier or are bad at guessing passwords. If you do decide to hack in your school until 3 a.m. to do your dirty, be careful. Some schools have new tracking lights that call the cops. And sleeping in the boys' room isn't that fun. Try the girls' room.

If it isn't UNIX, good luck! Try the PS444 numbers or try "new" or the name of your principal or teachers. If you still are getting nowhere, become a faculty child. When you have gotten in, you should see an idiot-proof menu. I believe it's like that for most schools. If the shell is poor, try to "vi" your way out of there. Now you can probably change your grades. Here's where it gets a tad tricky. Never change them for more than a few points, and always change someone else's grades too. This person should be someone you know who is big on computers and less everyone else know. That's just a bit of added security, not much

but a bit. There is one exception. There always is. If you're a senior and the grades are about in close for fourth quarter, go wild! Give yourself a bunch of A's. It won't really matter - you probably have already been recruited for a college or the army. You can also get the home room assignments a day early and also unknown events, like fire alarm testing. Another fun thing to do is make a memo for a fire alarm, or ask your school's security officer to check some asshole's locker. Better yet, write a memo to the security officer telling him he has been fired and a letter to the asshole saying he has been suspended. These latter options may sound like a lot of fun, but will probably result in better computer security.

More things to do include changing your schedule. I knew someone who had a messed up schedule that gave him four hours a day. The school finally noticed the fluke and corrected it, but the kid never got in trouble. He was, after all, following his schedule. I wanted to take Computer Applications, but for a prerequisite I needed to have taken keyboarding for a semester. No chance in hell I'd do that! So, a bit of editing, and I had the class. A tax (in my school) you need to get so many credits in each class before you can stop taking it. Guess what? I don't take gym class anymore! Filling in credits can be dangerous though. But then again, everything is here!

Here's a very important question: Who can you tell? Don't tell friends, they will want (and threaten) you to change their grades, and you'll lose them. Look through the grades for people you don't know receiving F's. Approach them and ask for \$5-10 dollars to give them a D- instead so they won't stay back. While many probably won't believe you, there will always be one or two who do. Make it well known to them that if you get caught, they're going down too. Don't you love blackmail? Even if they say they don't want to do it and then tell on you, just give them like an A, and say that they had you to do that. Make sure they know you can do this. Some last-second details: If you decide to change grades, you shouldn't do anything else, because they will notice something is fishy, check the logs, and see that you have raised your grades. This means, if you can, erase your presence from the system! The last thing to say comes from the movie *Revenge of the Nerds*: find a cutie, and tell her you'll change her grades if she'll go out with you. Hey, it could happen!

Federal BBS's

by Anonymous

800-222-0185	US Food and Drug Administration
800-222-4922	Office of Educational Research Improvement
800-235-4662	Gulf of Mexico Program Office
800-252-1366	Center for Devices and Radiological Health Electronic Docket
800-322-2172	Federal Highway Administration Hurricane IHS
800-337-3492	West Virginia Research and Training Center
800-342-5526	National Biological Control Institute
800-344-6224	Office of Ecological Conversion Information
800-352-2949	Office of Education: National Institution of Health
800-358-2221	Global Seismology and Geomagnetism On-Line
800-358-2663	Automated Vacancy Announcement Distribution System
800-368-3321	FAA Safety Data Exchange
800-426-3814	National Library of Medicine
800-525-5756	Minority Impact
800-543-1561	Wastewater Treatment Information Exchange
800-544-1936	NASA Small Business Innovation Research/Small Business
800-547-1811	Technology Transfer
800-627-8886	US Administration for Children and Families
800-644-2271	National Institutes of Health Information Center
800-645-3736	FAA Flight Standards
800-679-5784	Toch Specs Plus
800-682-2809	Next Generation Computer Resources
800-697-4636	Small Business Administration
800-700-7837	Radiation Studies Cleanup Standards Outreach
800-722-5511	National Oceanic and Atmospheric Administration
800-735-5282	Environmental Information Services
800-735-7396	US Department of Veterans Affairs Vendor
800-776-7827	Boards of Labor and Service Contract Appeals
800-783-3349	Federal Real Estate Sales BBS
800-821-6229	Federal Information Exchange
800-858-2107	Economic Research Service/National Agricultural Statistics Service
800-880-6091	Federal Aviation Administration
	Nuclear Regulatory Commission Decommissioning Rulemaking BBS

HACKING THE SR1000 PEX

by maldoor

Of course I guess I should start by saying that any information contained in this article is for informational purposes only, and that this article is merely an example of how such a cheap PBX system could easily be taken advantage of.

The SR1000 is a large fully redundant PBX System capable of maintaining over 1000 ports and supporting digital trunk access, conference, inbound call distribution, residential resale, voice mail,呼派线, etc. The SR1000 PBX was designed and built by Solid State Systems in Kennesaw, Georgia and is currently being used by the Military, 911, long distance companies, debt collection companies, phone sex, and who ever else lacks the common sense to make better decisions. Hopefully this article will cause some neurons to fire and some security procedures to improve, although I doubt it.

When you first connect to an SSSINC SR1000 you will most likely see something to the effect of "Solid State Systems" and a bunch of garbage. This of course is because you are connected to just that, something a little more advanced than a spark plug (OK, well maybe I'm exaggerating... but hey, this thing ain't no SSS.) OK, so obviously the real reason for the garbage is of course because you are using the wrong emulation... switch to ADDS 90 (PCPlus has it) and we'll continue. Hopefully you figured all of this out for yourself anyway.

Now that you're in the right emulation and providing you are connected to an SR1000 one of two things will happen:

1. You have a screen that says "SUPERVISOR" and "PASSWORD."
2. You have SR1000 in the left corner, and some type of menu or shell.

If you get the first result, laugh Out Loud because this screen is most likely just a joke.

(As I said, it has no security so this screen must be a joke.) Most likely you will not see the first screen which means you're seeing the second result. Guess what? You're in! (Difficult?)

Going back to the login screen (provided this rarely has stumbled upon you), try the following defaults:

SUPERVISOR NAME	PASSWORD
SSSINC	KENNESAW
SUP1	SUP1

TRAN [transfer files to redundant system]	S1 ABL [abbreviation] (show a table)
EXIT (exit S1ABL)	

DIR	COPY [filename] [file2]
DELETE [filename] (* is a wildcard)	CD [directory] (you can't see the DIR names)
HELP	

If none of these work, call later and try again. If anyone is using the console, or forgets to log out, you will of course drop right into their session... just watch first to make sure they aren't typing when you drop in... (This is why you usually don't get the LOGON screen.)

You're In! What First?

If you are at a prompt, type SHELL. If it doesn't let you go to shell, hit escape once to go back a menu, and type shell again. You should now be in shell.

Remember escape will get you out of almost everything on the SR1000.

If you have something that looks like a DOS prompt (and you will now if you just went to shell), type the following to get a dump of the login/password table:

SA ABL DUMP

Guess what? Yeah exactly. No encryption.

Can you believe it? The funnier part is that technicians aren't trained to do this, and since the software doesn't allow the administrator to list the valid accounts, they usually don't even know which accounts are active and which aren't.

(Good one, guys.)

I don't have the time or the space to explain the entire SR1000 filesystem or macros, but

here's a list of a couple of simple shell commands and explanations:

DUMP [filename] (dump the file in HEX to the screen)

COPY [file1] [file2]

DELETE [filename] (* is a wildcard)

CD [directory] (you can't see the DIR names)

HELP

What Can I Do With This Stuff?

Now you're going to want to lock down the Direct in Access number listing you dumped earlier. If your list is long enough, you will hopefully have either 1-800 numbers, or other phone numbers which have an access number of 2344 next to them (this number may be different, but will always be in the Feature Access Codes table as "Validation" or something similar towards the bottom right of the screen). This means they go to the autoicode validator which of course requires one of the autoicodes from the list you also dumped earlier. Congratulations - you have the dialin and all of the calling cards.

If they aren't using the calling cards, you have several options, of which I'll give you two...
Add Four One and Set Up An Individual Feature Access Codes Screen

Look on the Feature Access Codes (FEAT-ACC) Screen for the Validation Access, which will be towards the lower right of this screen. If it's blank, you can add one by typing (Add, moving to it, changing it, and hitting F10/ME and then (Activate). Now press a character to the Direct in Access Codes (DIACODE) listing and go to the DIACODE screen and (Find) this number. If the first field under this screen is a 1 (match by DNIS) after the find you are all set, especially if it is an 800 number. Select (Change, and change the Access Offset to match the code you found or added into the FEATACC screen. (Note: Any other Feature Access Code should work at this point providing it is allowed by the S1ACOS and RSCOS of this TRUNK GROUP) Now type A1HCODE, and enter an 8 digit code along with a COS. If you don't know what Class of Service to use you

figure out what type of trunks this group is comprised of (T1's, B1's, D1D's, whatever). Type TRNKMOD and do a (Find) for each of the trunk names that you have written down. If you see something like "T1" for the port type, it's a T1 Span... if you see "LS" or "GS" it's either a Loop Sign or Ground Start analog phone line. If you see anything else, don't worry about it right now. Find me and ask questions.

can just guess, or you can add one into the STA-COS and RRSCOS tables. (These tables are self-explanatory.) Grab another phone and call the number you set up. You should get a tone, and you should be able to enter your code and get a second dial tone.

Go For a Direct in System Access (DIA-0)

Pick a number in the Direct to Access Codes (DIACODE) listing and go to the DIACODE screen and (Find this number. If the first field under for this screen is a 1 (match by ONUS) after the first you are all set, especially if it is an 800 number. Look on the FEATACC Table for the "Remote Access" or "Meet Me Conference". (Change the Access Offset of the DIACODE Number to match the Remote Access code. If the Remote Access code was blank, you can either add one to the FEATACC Table or pick another FEATACC Code. Hit HOME, then Activate it. You now have an 800 number that will either give you set inside diahose or drop you into the conference. (You would now dial 9 to get an outside line.)

If you decide you want to learn a little about routing, you can try the following experiment, providing your SR1000 has 800 numbers in section 800 Line Routing.

If you have a good sized list of numbers in the DIACODE table, you can look at the Access Offset. Write it down.

(Note: 800 Numbers which are not terminated outside the PBX will most likely have a Station number in the DIACODE Access number field instead of a Direct Routing Table Access (DRTA) Number. DRTAs are usually 1xx to 19xx, whereas stations are usually 1xx to 9xx.)

If you found a DRTA in Diacode's Access Offset field, type DRTAS and do a (Find for the Access Offset.

You will now get what is called a Routing Code. Type ROUTE and do a (Find on the Routing Code. Here you will get a table which contains this and any other routing code which

associates with the routing table. Type (Next and you will now get the routing procedure (018. It was so named by Bell Security because the first device of this type that they found was inside a cheesebox.

The cheesebox turned two phone numbers into a loop line. What this enabled one to do was communicate with another party without having to disclose either party's phone number. The first party would call into the line one, the second party would call into line two, and the cheesebox would connect the two lines together, enabling the two parties to communicate. It was often installed in a phone cabinet, or an apartment that was shared with six others.

Additionally, the cheesebox incorporated a black box circuit for each line. This enabled each party to avoid being billed for the call and also acted as the switchhook for the device.

Other variations of the cheesebox, often called "CF (call forwarding) Boxes", or "Divert Boxes" enabled one to call line one and receive line two's diahose. These boxes are still available commercially; paired with an auto-dialer for use in a person's place of business to reroute calls to an answering service after hours.

Plans for the original cheesebox were printed in *HFET&T* during the 70s. Unfortunately, since they only work on Step by Step or Craybar switches (due to the integration of the black box circuit into the unit), they are unsuitable for use in 99 percent of the country.

In the mid 80s, plans were distributed on BBSes for a device known as a "Gold Box". The Gold Box was a cheesebox-style cheesebox. The schematic was drawn with ASCII character graphics, and difficult to interpret. Current versions of g-file have either an unreadable or incorrect schematic.

More recently, a seller of "specialized electronics" equipment has marketed the "Logos Box". This divert-style cheesebox uses a single line with three-way calling to accomplish its function. The price, however, is out of the reach

1) TEGP 15

2) PROCEDURE 54

3) 47
53
63

New hit escape and type DIALPROC and (Find the procedure listed in your routing table. This is the actual wink and dial out on the trunk. It may look something like this:

1) ST12E
2) 9F
3) DIAL 0
4) DIAL 601
5) DIAL 4627345
6) DIAL F
7) WAIT
8) CONNECT
9) TERMINATE
10)

Just a bit more information before I stop rambling.

Cordco (the distributor for the SR1000) has the (C900 BBS which contains the last version of the SR1000 operating system, which provides hours of many debugging pleasure. (They! It's better than burning a Tandy or cracking Windows, or trashing a Tandy through Radio Shack's windows... OK, maybe not.)

Also, this switch is capable of Silicon Moisture in several different ways... keep this in mind when you get permission to play with one...

More later. As Dr. Delam would say

Keep in mind unauthorized access to any computer is a felony, so of course make sure you have permission before you try such an experiment. Useem.



by Thomas Lem
niv.org/2600.com
voicemail: 4286

of many, and the requirement for the line to have three way calling limits its use. (If there is sufficient interest, you may see plans for a Logos Box and other surpicious BASIC Script applications in future articles.)

This version of the cheesebox is based around the Parallax BASIC Stamp. This microcontroller was chosen due to its small size, extreme versatility, and inexpensive price. The use of a microcontroller also enables one to use a minimal amount of support hardware, as control functions are handled via software.

There are currently two versions of software for this device. The first listing is designed in go off-book as soon as a ring is detected on the primary (incoming) line. The second listing waits 30 seconds (the time can actually be any length up to 18 hours - that's nice of the nice things about using a microcontroller) after hearing an initial ring; at which time it will then pick up the first ring of the next incoming call. The secondary listing is for use with a primary line that has an answering machine, EAX, or similar device installed on it. Most auto-answer telecom devices require a minimum of two rings to activate. The use of a one-ring wake up feature makes it compatible with them.

Picking up on the first ring will also defeat any caller ID device placed on the primary line. CID data is sent between the first and second ring. By picking up on the first ring, the data is prevented from being sent and subsequently received by any CID device on the primary line.

The CID device will display nothing for that call. One should keep in mind though, that this feature should be used in conjunction with other Caller ID defeating techniques as it by itself won't defeat anti-callback (*66 in most areas) or call trace (*57 in most areas).

After detecting a ring, the device picks up the primary and secondary (ringing) line. If the secondary line is not in use, one will receive the secondary line's dial-tone. If the secondary line is ringing at the time of seizure, the device will "answer" it. To the caller on the secondary line,

MAKING GOING TOTALLY POSTAL

The Cincinnati Nightmare

Dear 2600:

In the Spring 1995 issue, a Mr. INSANITY wrote to wonder about markings on the road. The explanation is, alas, all too prosaic.

In many places in the country, one must call a special number before digging (not the 911 emergency-style digits, of course!). One says, "I need to do some work or [digging]". The utility agency then either dispatches contractors (very likely) or the various utility companies who then mark all the buried line and cable locations in the area, which usually includes 200 feet around the exact location.

Around here, the markings are permanent and veracity-like a couple of years to go easy. Grace is, of course, not an issue, as the markings are gone after the first marking. I've never seen them or pieces of personal structures except when they are involved in the work (i.e., replacing a water line connection).

The reason for this requirement is mostly safety, with a secondary desire to avoid disrupting service. If you've ever seen the aftermath of a gas line explosion, you'll appreciate the safety aspects.

All is not, this operation is a good thing, at least in my opinion.

Craig A. Flinsch

Dear 2600:

Mr. INSANITY could make one phone call to his power company to get an explanation of who "marked" his neighborhood but for the rest of the reader, I will summarize here.

What was experienced in Cincinnati is a procedure called Miss Utility. Some towns require that before any contractor begins digging, digging, laying cable, etc., to be call and be visited by Miss Utility. A representative of Miss Utility comes to the proposed site and marks all the known utility lines: cable, phone, gas, electric, and such. The idea is to prevent these contractors from digging over a backhoe and sending a gas line and blowing up not only your house, but your entire neighborhood! The reason he showed up in an unmarked van is because Miss Utility uses contractors to paint the lines.

I can understand your confusion. The first time they painted my driveway, I almost got into a fist fight with the guy. But then I thought about it and decided I liked my house in one piece. However, when they ripped up my lawn, I was really pissed!

Judgeator of DC

Dear 2600:

The lines that were described in this article were not placed by the local Bell but rather by Miss Utility. It's the law that anyone who is a contractor has to call 800-257-7777, whether you call a not so pleasant operator takes down the address that is in question and arranges for someone to come out and paint lines wherever there are utility services to be found. They do this within 48 hours and it is free.

Nicole

trk, yellow-gas, orange-electro. These may be different in your area, but I doubt it.

Although most utilities do their own locate, US West contracts their out to Kelly-Cable Corporation. I don't know if Kelly's locations are incorrect, but if US West's prints are terrible, or both, but I do know that these people have no clue where their phone cables are buried. We've only pulled one 100-pair out of the ground so far...

I would guess that the phone company called in a locate for that area and the locator took it literally. It seems that it is that one person was doing all the locating, but that's Ohio.

I don't know if anyone cares about this or not, but it is nice to know what all those dots, marks are for. Who knows, maybe you should dig down to that phone table in your Alley to see what it looks like.

I don't know if anyone cares about this or not, but it is nice to know what all those dots, marks are for. Who knows, maybe you should dig down to that phone table in your Alley to see what it looks like.

Airplanes

Dear 2600:

I would like to comment on the "Circumlocution Nightmare" letter in your letter column. The reason that there were lines on everyone's lawn, not just "Mr. INSANITY's" lawn is that the buried utility lines cross other easements on other people's lawns to reach "Mr. INSANITY's" home. The easement is the right of way granted by the local government to a utility to run their plant through or over your property. In underground areas this can be up to 10 feet wide, beginning at the easement edge and extending further under ground, resulting, for example: gas, power, cable TV, water, and telephone. Each line has to be marked so that when new lines are put in, the existing lines are not damaged. This is to protect the underground utilities as well as the people who are placing the new lines. I just learned you would want to know where buried power lines are if you were operating a machine placing underground cables. In my state (New Jersey), it is the law that all underground utilities are marked before any digging is done. As to the unmarked van, some utilities will hire a contractor to do the underground locating.

PS: I'm not a teleguy! I am a cable guy.

Benjamin

New Jersey

2600 Groups

Dear 2600:

I have been reading newsgroups with "2600" used in their titles. I am not really looking for possewatts, books, or ghost boards, but I am interested in real discussions on backburnum. Are any of these for real?

Michael J. C. G.

Long of people seem to like to use our name for various reasons. The only known group recently registered with us is the 2600 group on 2600 which we started several years ago. We don't moderate the group since its purpose was to give everyone a voice in the tradition of Usenet, that resulted in a great deal of garbage being posted. If you can still find some interesting discussions there if you can wade through all the crap. The Internet Relay Chatroom #2600 was also started by us and, in the tradition of IRC, we really controlled by anyone and occasionally can communicate with other 2600 types in a fairly open environment. We continue to do this.

It's much easier and cheaper for us to ship a box of magazines to a distributor for them to take care of all the paperwork and handle subscribers on the other hand, have to be kept track of and processed by us or at a time. Subscribers always grow for that takes three shifts, much or five occasional hours. Just marketing costs, and the convenience of not having to hand them letters or papers and going into the inevitable binders that result from sheer thought. Other magazines play by different rules, they subscribe subscribers through advertising which is where real money is made in the publishing industry. We are committed to keeping our plan valid.

Phone Shutdown

Dear 2600:

After reading about Mr. INSANITY's "Cincinnati Bell Nightmare" (Spring 1995), I had to write. I work for the city government, reading water mains (bentonite) as a summer job) and deal with utility locate rapidly. You might be interested in facts that each utility uses a different color. Blue-water, green-sewer, red-elect-

ric, yellow-gas, orange-electro. These may be different in your area, but I doubt it.

Although most utilities do their own locate, US West contracts their out to Kelly-Cable Corporation. I don't know if Kelly's locations are incorrect, but if US West's prints are terrible, or both, but I do know that these people have no clue where their phone cables are buried. We've only pulled one 100-pair out of the ground so far...

I would guess that the phone company called in a locate for that area and the locator took it literally. It seems that it is that one person was doing all the locating, but that's Ohio.

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I don't know if anyone cares about this or not, but it is nice to know what all those dots, marks are for. Who knows, maybe you should dig down to that phone table in your Alley to see what it looks like.

Airplanes

Dear 2600:

I just picked up a copy of it in school. I think you guys are doing a great job and I plan on subscribing. Anyways, myself and a friend are big hackers and we have known about your machine for some time now. We would like to get our own in Erie, Pennsylvania but we only have one question: what goes on at these meetings? We don't want to have to schedule a meeting and just hang around for three hours like a bunch of retardz waiting at each other. Please shed some light on this subject.

That's all for so much as "newsgroup" for number or "gatherings" where there is a set agenda and no one person is in charge. They are what you make them. You now know people you want to ask to sit with the group. See that? So, have every in a corner, or try and ditch the lowers. We have a few general guidelines which you can access by emailing 2600@2600.com.

That Question Again

Dear 2600:

I am writing to verify something. Newstand price of your magazine is \$4.50 and the subscription rate is \$21 for a year. 2600 is a quarterly magazine so that means that the price on the newstand is \$18 for a year. I'm interested to know why when you make less money on the newstand, you are charging more to subscribe than for someone to just buy the damn thing at a newsstand?

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If you hit enter and type `dm 5/01` as terminal type, you will see a warning telling you that this is a "federal government computer system". And then if you try to disconnect it traces your number. I think that it's a computer that the army uses for control, etc. But it's a high-end computer so remember to take some precautions. Trust me, I'm probably gonna be put away because of this.

Unless you ever a while for forster that you're telling us, you have nothing to fear from mailing this number. We don't know who you were when you say "tracer your number" when you try to disconnect. Since it's an FBI number, it won't likely透露 your number as soon as you connect. So it wouldn't be a good idea to call this thing off from your home and try to back it up.

cooldean@atc.com

Re: *Novell Hacking*
Dear 2600:
A friend told me about 2609 and that in the latest issue there was an article on hacking Novell. Having administered Novell for more years than I wish to admit, I was hoping to gain more insight into how I can better protect systems I'm responsible for. I do not wish to do any other reading as I believe the author's intent is genuine, but Trap needs to put back into reality and learn more of Novell before subhacking Novell (Iack). Novell meets C2 security requirements and is pretty damn secure; however, out of the box the security is not active and must be properly implemented by the administrator. If security is properly implemented the backdoor account will not be supervisor equivalent, as mentioned in the article, then Novell is relatively hard to break into, and there is no master backdoor password that only is the implementation of it by poorly trained technicians and administrators.

There is a way to gain access to a Novell file server, but you need to do have physical access to it to break in. Novell stores its security information in binary files, when Novell starts it tries to open the binary files. If they are not found it assumes a new installation and creates all new files with two default accounts, guest and supervisor, no passwords. This is how user gets into the system, if they have physical access.

First, power down the server (if you could DOWN it then you would have administrator privilege). Now boot the server using a DOS disk and then, using your favorite sector editor, do a full search for any binary backup log file names; if you find any rename them. Now scan the disk for the actual binary file names and rename them so they now appear as backup binary log file names. Restart the file server, now you have access as the supervisor (no password). Now you need to

reboot the original binary file. Run the binary restore utility and the files you renamed earlier to backups with the sector editor from become the active binary files. As long as you don't log out you are still in as the supervisor (you number) when you try to disconnect. Since it's an FBI number, it won't likely透露 your number as soon as you connect. So it wouldn't be a good idea to call this thing off from your home and try to back it up.

cooldean@atc.com

Re: *Security Concern*
Dear 2600:
I have only read your magazine for the last two issues. I find it ticks me and was considering subscribing. I'm only 15 and hear many things about the government monitoring your mail and what you subscribe to and was wondering, if I ever got in trouble for something like this ever happen? Should I just buy it from the newsstand? I would prefer to subscribe, but don't want to take any chances.

It's not so much whether you publish pro - diagnostics finding orgies of 2609 in your publication from now on to do and link that to criminal activity, regular use of Novell they were informed. We wish we could tell you otherwise but reading material can be used planning or in this day and age. You can either accept that or join in fighting it.

Ginny

Dear 2600:
In your Spring issue, YUKYUK complained about trouble canceling his AOL account after his friend hours were up. May I bluntly suggest to you readers with similar intentions, just use the keyword CANCEL. It takes you right to the get rid of my account screen. It is so much easier than trying to dial an 800 number.

Cancelling AOL

Dear 2600:

In your last magazine (Volume 15, Number 11) you stated in the top right corner "Special Red Box Issue". I think this is just redundant. More "other" mistakes give in a little "tech" like, "Lose 750 lbs. in 3 weeks" or whatever. 2600 is a magazine for us. Do not go so low as to have gimmicks to get your magazine sold. We buy it, you make money, everyone is happy. I just want to remind you that doing these things eventually will get less readers, not more. I don't want this letter to sound like I have a stick up my ass. I just want to make this magazine better.

Clear

Dear 2600:
In your Spring '95 issue of 2600 had a cover banner proclaiming "Special Red Box Issue". But I can find hardly any references to "red boxes" in this issue. What's going on? Is it everywhere? Is this a play so foul the feds?

Rev. Doktor S. Bo

Dear 2600:

Well, well, well, 125 2600 turned into a money grubbing, deceptive company. Now I was going to buy this month's issue anyway, but I'm sure plenty of people were attracted to it because of the caption "Special Red Box Issue" in the corner. Now maybe I should give you the benefit of the doubt... maybe there was a mistake or it was a joke (I don't think I see the humor) but there was no mention of red boxes, nor did I see anything "special" at all. I just hope this wasn't a lame attempt to sell magazines.

Method

If all goes well, I'll be picking up 2600 for the

rest of it very believable that the NSA has such capabilities. However, don't you find it odd that a former NSA agent, someone trained to not give away their identity, hasn't done just that? He says that the NSA "makes your telephone readily available". He says that he was a radio operator aboard a US nuclear sub, and only worked for the NSA for a brief period of time. That's definitely less than 10. My guess is there, maybe five years.

Given this information, it's pretty safe to assume that if the NSA wanted to barge, they know good and well who this man is. I think it's just important to raise the article with a grain of salt. This man might as well have signed his name.

Montauk

The Red Box Issue

Dear 2600:

On your last magazine (Volume 15, Number 11) you stated in the top right corner "Special Red Box Issue". I think this is just redundant. More "other" mistakes give in a little "tech" like, "Lose 750 lbs. in 3 weeks" or whatever. 2600 is a magazine for us. Do not go so low as to have gimmicks to get your magazine sold. We buy it, you make money, everyone is happy. I just want to remind you that doing these things eventually will get less readers, not more. I don't want this letter to sound like I have a stick up my ass. I just want to make this magazine better.

Clear

Dear 187

It's a progressing error. You'll find that the route will vary depending on what central office you're in. Good luck getting offred.

Off The Hook

Dear 2600:

I used to listen to your program on 99.5 FM here in New York every Wednesday night. But now I noticed it's not on anymore. Could you tell me what happened to your radio show? Did you change radio stations or the time you come on?

The show moved to Tuesday nights at 8:00 while back it used to air on the air. You can now listen to it through our new voice mail system (516-472-2629).

Free Communication

Dear 2600:

I've got a girl in Canada that I'd like to talk to, but I'm sure as hell not going to pay the phone at the phone company 25 cents (or whatever it is) per minute to do that! I'm guessing that I need to make a red box or the box I have to tell what these are for, so I just want to be able to talk to her and not be charged for it. I already have a Bell South long distance, so I'm sure that will help, too.

Note: Please do not print this letter

M.A.

perhaps no more than 200,000 people are educated by the media. If you feel that, we modernize your book or the media for a broad living time. Which you figure if not, you will have learned one of the last remaining lessons of the majority red box.

Malfuction

Dear 2600:

Whenever I dial a number like 596-577-7777, it rings once and the Bell bitch comes on and says that I need to dial a 154. Well I do that and then finds out that it's 11:15. Does anyone know what the point of this is?

Page 34

planet with no permanent changes. Great for incorporating girls.

Words of Thanks

Dear 2600:

Wow! I just read my first issue of 2600 ever to receive, and damn, you guys do a nasty fine job of stirring the pot. I knew of 2600 before, knew it was the Mother Ghosht, but I had no idea that it was all about personal and digital freedom. In fact, until today, I was under the false impression that 2600 was for a "mafia" fringe" of angry curmudgeonly miscreants who just wanted to f*ck with the System. I didn't think about the fact that f*cking with the System I didn't think about the translates into fighting the personal liberty.

Your web site is awesome. I've just spent the last hour or so reading and poring over pages (the S.S. and Steve Jackson stuff is the absolute shit) no passing to friends and associates. And I plan to be at the next Friday meet here in Seattle. Damn, kids, you've got my head spinning (not that it doesn't spin a lot of the time anyway).

Thank you for being so goddamn pugnacious in the face of the Oppressors and looking out for us. I really like the freedom of people like me who see just robbing on.

C.S. Spankford
Seattle, WA

Dear 2600:

I was browsing through Barnes and Noble and came across 2600. I've never seen more underground info in a mainstream bookstore before. Is your title legal just because the FBI hasn't bothered to leaf through it or do you sneak copies on the shelf when nobody's looking? DMR

What we do isn't illegal and no federal agency will be able to charge that - at least, not without making a lot of other charges illegal!

Applying Knowledge

Dear 2600:

I have a comment and a story to relate. First my comment: Keep up the good work! I don't know if I really consider myself a hacker as such (I'm a scientist, but I love learning about the technology around me, I firmly believe that knowledge, like anything else, can be used for good or evil, my son can verify that). Thereby solving you for providing knowledge in the masses!

Secondly, I want to pass on this story: My wife and I were driving around Lansbury, VA, on Rte. 15 and we came to an intersection with something funny going on. All four stop lights were red and each had bright white shining lights blinking on and off very quickly (a sub-

time, traffic was beginning to pile up on all four sides. Unbelievably, nobody wanted to go through a red light. Neither of us had ever seen anything recently similar to this before. Luckily, I remembered reading about how the police and fire departments change the lights green by using an infrared device and I might be able to simulate this by fashing the lights. So, I told my wife to turn the lights. What did we have to lose? Well, she did it and only one traffic light turned green! Needless to say, that little trick gained me much respect in her eyes and got her traffic moving again. Those other folks might still be sitting there! Too bad for them. Maybe they should read 2600!

Dr. Bob
Germantown, MD

Coin Collection

Dear 2600:

One day while sitting in QuikChek and staring at my collection, the only game they had there, I started to wonder if video games and pinball machines operated on the same coin collection principles. If so, well, you know what I'm going at. I haven't had a chance to test this theory yet, but in the future I'll try. Although I suppose it wouldn't be wise in crowded video arcades or restaurants.

Play the risk of you become the first person ever to buy a video game.

Trouble

Dear 2600:

I recently bought your magazine at my local newsstand. I loved the magazine the second I started reading it. I read it all the way through twice. I showed all my friends who wouldn't tell their parents and they liked it. This magazine between my success so my parents would not find it. A week after I bought your magazine my mom was thumbing the sheets in my bed while I was at school. I came home thinking everything is fine until I saw the magazine lying on my bed. My mom got pissed at me and screamed and yelled at me and told me not to bring home trash like that. I plan to buy your magazine again and find a better place to hide it. Please don't mail me back - I'm afraid my mom will find out again!

Some parents really suck! The same web-cachers ready to pornography. It's a real sad sign of the times.

Update

Dear 2600:

Please let your readers know that the encryption program CODE512.ZIP is now available. It has been compiled into an executable, and I will email it upon request. I can be reached at MEGALINK@AOL.COM. This program is superior to the CODE512 program featured in the encryption article. It can also be downloaded from AOL. Please remember that no sensitive encryption algorithm is simple; it is still effective. I will come any questions any users may have.

James Bond

Suspicion

Dear 2600:

I've been a reader of your magazine off and on for quite some time now. I never really imagined anyone really getting in trouble for asking simple questions until I myself was visited by the police. I had posted a letter to a locksmith asking if anyone knew anything about the locks that were used at MIT, more explicitly Tech Square (the University of Computer Science buildings). I'm sure many of you can understand why someone would ask about Tech Square, since it is the origin of many things in our culture.

In you. Don't get me wrong; I suspect my employer has been a breaker, so to speak, for longer than an employee of U.S. West. I do not condone stealing from the phone company but I do condone expanding knowledge by whatever means is necessary. Happy phreaking.

Cpt. Kirk

Just last week I went to my neighborhood Coop (Price Club). They always have a screen saver and a password on each computer. I asked the guy in that department why they did that and he said some hacker would probably come in and erase everything on the computer I wasn't happy with this, so when he went to the bathroom I shut the computer off. It came back on in Windows 95 and I was able to make my own account. Then I logged in their screen saver is used. "Welcome to Coop" (because it was at the front of the building and everyone who came in saw it) I decided to change it and put in a new password. Now everyone who comes in the store sees a screen saver that says in big letters "Hack The Power. Read 2600". When I was leaving, I saw the guy trying to guess the password. He'll never get it. It's mine.

I was then visited by the police and told that basically there had been multiple thefts occurring in the general area of Tech Square and that they were investigating it. I just thought it was someone trying to act cool and make themselves look good. So I told the person who was talking to me, saying that he had friends who were members of a local hacking group at MIT. So, as I would just like to see one and compare it with something else to set the difference. So he explained to me today. So he asked for my phone number, saying we could meet up and then join with the group.

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Don't you think they at least wonder where such people that can do lockpicking come from? Do you think they just spontaneously pop up? "POOF! I'm a locksmith" It's a skill, not just something you can read and become. From what I understand it isn't illegal to be a locksmith, or possess the skill. Otherwise there would be a few businesses near me out of business.

To top everything off, the locks at Tech Square are mostly Schlage high security locks. The company itself is willing to offer a thousand dollars on the spot for someone who can reproduce the results of picking one of their locks.

Redial

Videotext

Dear 2600:

In the Summer issue of 2600's letters section I saw an article by Alinoff about text on your TV via a closed caption decoder. He mentioned how he hoped that

one day they could be interactive. Well, in many countries around the world they already are.

In most European and African countries they have something like that but much more advanced. The information is transmitted in the open space between the tracking images that make up video. You navigate by pointing in 3 digit numbers with your fingers and the "pages" of information are census text with set similar to "pages" of information are census text with set similar to ASCII art. Each channel has different information. In the United Kingdom, for example, Sky News has news and weather information, while The Children's Channel has little educational pieces. Of course the major use of this technology is showing people what's going on the channel and that is very nice to have. Most of the "pages" have little banner-type ads similar to those found on web pages which makes it even more surprising that American TV stations didn't pick up on it.

McQ

Chip Implants

Dear 2600:

About the people using it in your Summer '96 issue - my friend's sister took her daughter to the county nurse to be immunized. The nurse gave her a pamphlet giving the benefits of having a type of computer chip put in her children's arms to keep track of their immunization records. Interesting, huh? I'm trying to get hold of one of these pamphlets. Big Brother is closer than we think. In fact it is at work in many ways already. This took place in Cavalier County, North Dakota.

Oddball

Hacker Defense

Dear 2600:

In the Summer 1996 issue, someone named "M. Free" from Milwaukee wrote in complaining about this magazine and criticizing hackers by saying we all wore coke bottle glasses and live in closets. I think he's just pissed off because he's realized that when we hackers grow up, we'll make twice as much money in a week than he'll ever make in a year.

Chair

Battling *69

Dear 2600:

I stopped war dialing for about a year and recently I got back into it. I soon realized that war dialing was not going to be as easy as it used to be. The first number I dialed, a voice picked up and said "Hello? Hello?" This is what I was used to. As soon as my computer hung up the line and got ready to dial the next number, I received an incoming call. It was the guy I just war dialed. I was surprised - call return (*69) had easily slipped my mind. I have tried to war dial a couple of

times since then but the same thing happens. The modern is not able to dial out because the line is tied up with all the angry incoming calls. I am able to block incoming line that has much more advanced. The information is transmitted in the open space between the tracking images that make up video. You navigate by pointing in 3 digit numbers with your fingers and the "pages" of information are census text with set similar to ASCII art. Each channel has different information. In the United Kingdom, for example, Sky News has news and weather information, while The Children's Channel has little educational pieces. Of course the major use of this technology is showing people what's going on the channel and that is very nice to have. Most of the "pages" have little banner-type ads similar to those found on web pages which makes it even more surprising that American TV stations didn't pick up on it.

Since you're obviously in a part of the country where blocking *69 is not available, we have an alternate solution. Get call forwarding on your line so that when people call you back, it goes somewhere else and doesn't interfere with your dialing. That's a nice idea since the phone companies are unlikely to provide

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McQ

Cash Registers

Dear 2600:

In your last issue (Vol. 13, #1), there was an article called "Sharp Cash Traxx." I just want to add some info to it. The author says that the cash register is an IBM 3100 model but he didn't say that any other cash register could do the same thing. One day a friend and I were at the local Office Depot when we passed by an aisle full of cash registers. I didn't think anything of them except to push a few buttons. Then my friend reminded me of the article so we started searching for the IBM lasers. There were about ten registers. None of them were the IBM 3100 models but they all had the little lasers. Thanks for the article, Dennis Frey! While we were at Office Depot we decided to walk home among their computers by using the system file, making test files that said there was a virus on their computer. It's funnier that hell in itself with a batch file in their subsystem file and make it copy itself with a batch file. Then you switch an employee to to run their computer for viruses.

Spydr Man

Phoenix

Disney Facts

Dear 2600:

By reading filer, you crossed the line from reading to variation. That's nothing to be proud of.

When I first read the article in the Winter '95/96 issue about "Infatuating Disney" by Dr. Dehlin, I was quite perturbed. I was not surprised to see others feel this way and wrote to you in the Spring '96 issue. This is the I am now writing.

Concerning the letter by Dr. Dehlin, it seems he was trying to get the point across that he was an expert at Disney World. The one sentence that caught my attention and that makes him sound phony is that Dr. Dehlin is "A numerical keypads, yes, but a hand print reader?"! But I have been a Disney cast member for three years now and currently work night shift to the Docks area that has been mentioned in the past two letters. I am writing to say that yes, there is a hand print

er at the front door of DVC/S. It is an ID/D card key system by Recognition Systems, Inc. This door key system requires a person to type in a five digit code and then lay their hand on a metal glove located under the keypad. There are no optical sensors on the plate, and I have been told by two people with codes that it uses a temperature reader of some sort. (I didn't research far into the temperature thing, so don't quote me on that one.) The funny thing is, you can get into DVC/S without using this system at all. Dr. Dehlin said that there is a camera looking out of these doors. This is because if you press the doobie, a recognition looks at the camera monitor, and can buzz you in. Another thing you may have realized that I said "front door". That is because there are five more entrances into DVC/S, and all you need is a "normal" key to get in. DVC/S is not as big as people make it out to be. Pretty much all it has are the computers to run all of the attractions and the personnel computers that hold cast members' information. If you ask me, the security level that they try to show off at the front door is too much for me, especially when they need.

Line Noise
Orlando

Crazy Phone

Dear 2600:

When walking around a strip mall, I heard a beeping sound. It sounded like a beeper, but faster. I looked around and no one was there. But there was a NYNEX pay phone! It was beeping. I picked up the receiver and it stopped. So I dialed my friend's house and heard the "Thank You for Using NYNEX" recording. It didn't ask for any money, the call didn't go through, and when I hung up the phone, it started beeping again! What could this be?

POT-USA

Source: The use of NYNEX's new phones was in some sort of trouble. These models are about recently for COCO's and a number of them are about recently now. After only a few nights, NYNEX picked up the receiver, you hear a fake dial tone. After you actually dial the number, the phone hangs a real shot home and starts the call. It sounds like this phone was trying to make a real dial tone so it started beeping for help.

Whether or not more hackers are caught straight off the bat or have a problem with money that require you to check your bills for that's something very similar with other than subjects that can concern us as hackers as a more serious concern. It's also worth noting that the author of the article never said he was a hacker. You're right, they are very well written.

Ben

Wichita, KS

Whether or not one group of people is illegal. We don't have a problem with money that require you to check your bills for that's something very similar with other than subjects that can concern us as a more serious concern.

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Immortalize Yourself

Send your letters to:
2600 Editorial Dept.
PO Box 99
Middle Island, NY 11953-0099

Ancient Computer Contest

The goal is simple. Find the oldest computer system hooked into the net. It could be a UNIVAC. Or a DEC 10. Mayaca Times Sheldt. Who knows? If you're the first one to find an ancient system and it stays on the net throughout 1996, you'll win a lifetime subscription to 2600!

Send stories to:
2600 Ancient Computers
PO Box 99
Middle Island, NY 11953
or email ancient@2600.com

ringling you out for persecution and summons having a legitimate reason to suspect you. A case in point, the last two hours ago in which a teenager was angry because the guards at the electronics store wanted to search his bag as he was leaving. Although he might not have actually been shoplifting, you must realize two facts. First, more teenagers shoplift than any other social group, and second, backpacks are an important tool in shoplifting.

Therefore, a teenager with a backpack is as likely to break into a house as a burglar. Although he might not have actually been shoplifting, you must realize two facts. First, more teenagers shoplift than any other social group, and second, backpacks are an important tool in shoplifting.

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sonal, and can hurt in. Another thing you

may have realized that I said "front door". That is because there are five more entrances into DVC/S, and all you need is a "normal" key to get in. DVC/S is not as big as people make it out to be. Pretty much all it has are the computers to run all of the attractions and the personnel computers that hold cast members' information. If you ask me, the security level that they try to show off at the front door is too much for me, especially when they need.

Line Noise
Orlando

Whether or not one group of people is illegal. We don't have a problem with money that require you to check your bills for that's something very similar with other than subjects that can concern us as a more serious concern.

Therefore, a teenager with a backpack is as likely to break into a house as a burglar. Although he might not have actually been shoplifting, you must realize two facts. First, more teenagers shoplift than any other social group, and second, backpacks are an important tool in shoplifting.

My accomplishment and I do have one is

SPOOFING CELLULAR SERVICE

By Baxhyder

One day while sitting around the house being real bored, I came up with a novel idea. What if you didn't have to clone cellular phones to phreak from them... what if you could buy a used phone from say, a pawnshop or something, and within a couple of hours you could be sitting at the mall chatting with your friend in Australia?

Impossible you say? Guess again... I know of some instances where this has been done.

Most hackers I have spoken with think the only way to phreak cellular is to clone a phone. *Not true*. The easiest way next to cloning a phone is to spoof the celco. To do the spoof, the first thing you need to know is some history behind this method. Now I'm sure just about everybody has gone to the Bell, Nynex, AT&T Wireless, etc. cellular centers and placed calls on the phones in the store on display. Well, this is a *working* cellular account that is *very vulnerable* to spoofing. Catching on yet? No? OK, since this is a working account, wouldn't one think that you could in theory use this account on *any* phone if the ESN and mobile number matched what was in the account? Well, there you go. I know of this being done before. And, as far as my source in the industry has told me, the culprit has yet to be caught.

Now that you know somewhat what I am getting at, let's get into how it was done and how some celcos have put an end to this method of unauthorized use of the cellular systems.

To do this, you would need some information first off, and that is as follows:

1. The cellular number of the demo

phone on, and with *most* phones, hit RCL, #. Remember this number as it will be the new phone's number.

2. The ESN of the demo phone, usually found under the mobile's battery pack or the sticker with the manufacturer's info.

3. The store number and address - also a good idea to know the manager's name and the hours of operation.

Now that you are armed with this information, take the ESN off of your phone, and convert it to doximal if it is not already in that form. Most celcos have two celcos.

Call the celco that you intend to spoof, and tell them you are buying a used phone and would like to make sure it is not stolen or that it doesn't have an outstanding bill. More times than not, the rep will be more than happy to do this for you. He/she is just helping the customer out. If the rep says it is in the bad list or more commonly referred to as the "Negative File", ask if it is because of a bill owed. They will usually tell you if it is. If the rep says he/she cannot tell you, then the phone is more than likely stolen, and cannot be used for spoofing. Save it for later cloning and get another phone. Once you have this information, if the phone is not stolen and doesn't have a bill with that celco, then skip the next step. If it only has an outstanding bill, then wait about 10 or 15 minutes and call the celco you intend to spoof back, and tell them you are signing up with the other celco, and they said to call y'all and get the phone "cleared". Most of the time the rep will tell you to hold, then after a minute or two come back and say, "Sic, you shouldn't have any problems hooking your phone up with blab blab celco, I had your phone removed from the negative file" or something to that effect. If not, raise hell about it and ask to

speak to the supervisor. All you want to do is get legit service with the other celco, and the first celco can't stand in the way of the other's business.

Now the fun part where your social engineering skills come into play. You can now call the celco up and say you are one of their employees from the phone center you visited, and need blab blab whatever done because your systems are down and you've had a bad day or whatever. A possible scenario would be something like:

CELCO REP: Joe Blow Cellular, my name is Jomaria, may I help you?

SPOOFER: Hi Jomaria, this is phred from the Anytown office. Our system is down out here, and I need you to pull up mobile number NPA-XXX-XXXX for me.

CELCO REP: OK phred, hold on a second while I get into the switch... OK, what can I do for you?

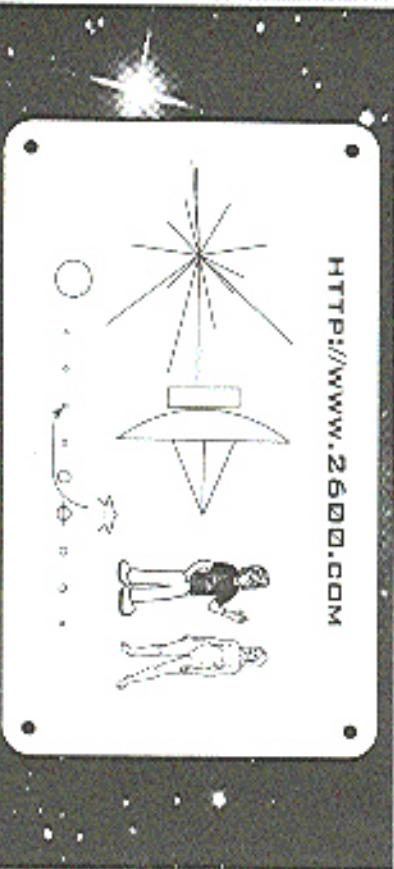
SPOOFER: We had a customer's kid drop one of the demo phones and I need to verify ESN on that account. It should be 12345678901.

CELCO REP: Yes phred, that's correct.

The drawback of this method is that once the celco figures out what has happened, your phone is as hot as a stolen phone and is then worthless. Second of all, this is considered fraud and is a federal crime. But it is a cheap, easy method of getting cellular service without having to buy a lot of expensive equipment to clone phones, which, by the way, is illegal (as if you didn't know).

SPOOFER: Looks like the kid broke it. OK, I'm gonna need you to change that to 12345678901.

CELCO REP: Ok phred, done. Can I do anything else for you?



When we sent Pioneer off into space with that plaque-thing, we weren't just inviting space aliens to visit our site.

We're inviting you as well! So join us. Our site is updated weekly.

REPROGRAMMING DATA

by JG

Move in some info on reprogramming your cell phone.

AUTOPHONE 30040, 40, CM7120, 405, 415, 425, 550, 600, 625, 750, 1100, 8005

NOTES: There is a slight error in the text. Technical support phone number is 816-221-6051/221-925-2713

KAM PROGRAMMING:

1. Hold the power turned on until M is M PGM & 1, where M is the three digit lock code. The manufacturer's default is 000.
2. The # key increments the step number.
3. The * key decrements the step number.
4. #00 enters the data for each step.
5. You can directly answer any step by pressing PGM followed by the step number.
6. Press END to complete programming.
7. End the entire programming mode.

PROGRAMMING BACK:

STEP	CODE	DESCRIPTION
31	3 0005	FIRST THREE DIGITS OF PHONE NUMBER
32	4 0005	LAST FOUR DIGITS OF PHONE NUMBER
33	5 0005	LOCK CODE
34	6 0005	ABCD CODE
35	00051 - 12763	SYSNTR TO
36	0 000 1	FLASH ALERT
37	0 000 1	FLASH FREE
38	0 000 1	CONTINUOUS DTMF
39	0 000 1	REPEATING DIALING
40	0 000 1	FLASH TO 110 FOR 110*
41	0 000 1	ACCESS OVERLOAD CLASS
42	0 000 1	STATION CLASS MARK
43	0 000 1	LOCAL USE MARK
44	0 000 1	MTG MARK
45	0 000 1	100% AUTOMATICALLY ANSWER
46	0 000 1	EXEMPTED NUMBER AUTOMATICALLY SET
47	0 000 1	888 2000 1 BEAM
48	0 000	SET TO 000 1 BEAM
49	0 000	SET TO 000 0000
50	0 000 - 43994	SYNTR TO 000 0000
51	0 000 31	SCREEN ALERT TIME OUT IN HOURS (OPT 150 ONLY)
52	0 000 31	RECO. MESSAGE RECEIVING TIME OUT IN HOURS
53	0 000 31	(OPT 150 ONLY) 888 2000 1 BEAM 2 REGS
54	0 000 31	888 2000 1 BEAM 3 REGS
55	0 000 31	888 2000 1 BEAM 4 REGS
56	0 000 31	AIR STATION CLEAR CODE
57	0 000	SET TO 000 0000
58	0 000	AUTOMATICALLY SET
59	0 000	AUTOMATICALLY SET

NOTES:

1. These options can be selected by setting together the following codes:

- 0 = NO OPTIONS.
- 1 = Preferred system lock, lock on DTM 550.
- 2 = AUTO LOCK (DTM 250 ONLY).
- 4 = CALL timer keep DTM 550 active.
- 8 = NO CALL INDIC.
- 16 = AUTOMATIC SUPPORT KEYING (DTM 550 ONLY).

HAL complete the codes at the desired options. For example to select call timer keep and auto redial add 4 to 16 for a code of 20.

2. 1 to 32 hours, except that a setting of 0 will turn phone off after 5 hours.

CODE: P 4. UNBLOCK: Enter three digit code.

END SYSTEM SECURITY

This procedure only works on models manufactured after September 19, 1987. The first two digits of the serial number indicate the month (01-12). The third digit of the serial number indicates the last digit of the year (1988).

PCM 1 TO = PREPARED SYSTEM.

PCM 5 TO = NOSE SYSTEM ONLY.

PCM 9 TO = 3000 PREFERRED SYSTEM.

PCM 0 PATCHES BETWEEN AIR AND R/A.

TRIGGERS TWO KILO TUR DIALER, OPTIC 18 DISPLAY.

NEC/OKI

NOTES: 8000 white face dual 300P's.

Notecode: 1-800-391-6466

There are MANY different models of Nec/OKI phones sold under various brand names. It you think it's a Nec/OKI, it probably is.

Determine which service sequence to use:

HALD HOLD PORTABLE MODES

If the phone has an PGM button and no END button use sequence 1.

If the phone has no PGM button use sequence 2.

If the phone has a END button and no PGM button use sequence 3.

If the phone has an END button use sequence 4.

If the phone has a PGM button use sequence 5.

If the phone has an END button and no PGM button use sequence 6.

SEQUENCE: ACCESS CODE

- 1 FOR (SECURITY CODE TWICE) PGM
- 2 DTM # (SECURITY CODE TWICE) END
- 3 DTM 0 (SECURITY CODE TWICE) *
- 4 DTM 0 (SECURITY CODE TWICE) #
- 5 DTM 0 (SECURITY CODE TWICE) *
- 6 DTM 0 (SECURITY CODE TWICE) #

The default security code is 000005. The (ctrl) (control) button is the single black dot on the side of the handset.

KEY PROGRAMMING:

1. Turn the power on.
2. Within ten seconds enter the access sequence as determined above.
3. The phone should now show 001 in the left of the display. This is the first programming entry step number. If it does not, the security code is incorrect, or the programming lock-out counter has been exceeded. In either case you can still program the unit by following the steps under TEST MODE PROGRAMMING below.
4. The + key is used to increment each step. Each time you press + the display will increment from the step number displayed on the left, to the date stored in that entry displayed on the right. When the date is displayed make any necessary changes and press + to increment to the next step number.
5. The 001 key is used to complete each programming when any step number is displayed. If you have selected the second phone number bit in step 10 before then pressing 001 will switch to 000. 1, Steps 01 thru 06, 09, and 10 will repeat for RAS 2, the step number will be followed by a 0 to indicate RAS two.
6. The 0 key will revert the display to the previously stored data.
7. The 0 key will abort programming at any time.

PROGRAMMING DATA:

DATA	DESCRIPTION
01	0000 - 12147
02	00000
03	0000000000000000
04	0000000000000000
05	0000000000000000
06	0000000000000000
07	0000000000000000
08	0000000000000000
09	0000000000000000
10	0000000000000000
11	0000000000000000

NOTES:

Take care with Motorola use of "0" and "1". Some options use "0" to enable, some use "1".

1. This is a 6 digit binary field used to select the following options:
- Digit 1: Internal handset speaker, 0 to enable.
- Digit 2: Serial Use Mark, 0 or 1.
- Digit 3: RSM Mark, 0 or 1.
- Digit 4: Auto Recall, always set to 1 enabled.
- Digit 5: Second phone number (not all phones), 1 to enable.
- Digit 6: Diversity (RSC receiver, not all phones), 1 to enable.
2. This is a 3 digit binary field used to select the following options:
- Digit 1: Continuous RSCW, 1 to enable.
- Digit 2: Transportable microphone, 1 enabled.
- Digit 3: 8 hour time out in transportable mode, 0 to enable.
3. RSCW MODE ACCESS.

PROGRAMMING MODES AND TRANSMITTER MODES

To enter test mode on units with software version 65 and higher you must short pins 20 and 21 of the transceiver data connector. An RS232 break out box is useful for this, or connect a test mode option from standard Radio Shack parts.

For MINT TR or Silver Mini TSC transceivers (smaller data connector) you can either short pins 9 and 14 or simply use a paper clip to short the hands free microphone connector.

HAND HELD PORTABLE MODELS:

There are two basic types of Motorola portable phones, the Micro-Tac series "210" phones, and the larger RSCW and Ultra Glancer phones. Certain newer Motorola and Pioneer hybrid micro-tac phones do not have a "step", but follow the same procedure as the RSCC-TAC.

6000 & ULTRA CLASSIC MODES:

If you have an 8000 series phone determine the "type" before trying to enter test mode. On the back of the phone, or on the bottom in certain older models, locate the P/N... number. This is the series number. If the 500th digit of this number is a "0" you cannot bypass the unit through test mode. A Motorola RCM4550/RCM4551 or Vmeye P/N... number, this is the series number. If the 500th digit of this number is a "1" it is required to make any changes to the unit.

Having determined that you do not have a 00 series phone the following procedure is used to access test mode:

Remove the battery from the phone and locate the 12 contacts at the top near the antenna connector. These contacts are numbered 1 through 12 from top left through bottom right. Pin 5, top right, is the Motorola Test Mode pin. To enter ground this pin while powering up the phone. Pin 7 (bottom left) is the antenna connector should be used for ground. Follow one of these procedures to gain access to pin 5:

1. The top section of the battery that covers the contacts contains nothing but R/S. By careful measuring you can drill a small hole in the battery to gain access to pin 5. Alternatively carefully cut the top off the battery with a hack saw. Having gained access use a paper clip to short pin 5 to the antenna connector ground while powering up the phone.
2. If you do not want to "destroy" a battery you can apply an external 7.5 volt to the + and - connectors at the bottom of the phone, ground pin 6 while powering up the phone as above.
3. You can also try soldering or crimping a small jumper between pins 5 and 7 (top right to lower left), or between pin 6 and the antenna connector housing ground. Carefully replace the battery and power up the phone. Use caution with this method not to short out any other pin.
4. A cigarette lighter adapter, if you have one, also makes a great test mode adapter as it can be disassembled to give you easier access to pin 5.

Many are pre-marked, or even have holes in the right location. This is because they are often stripped from the same point that the conductors used for making hand-test adapter kits and these kits require access to the phone's connector.

MICRO-TAC "TYPE" MODES:

This phone follows similar methods as outlined for the 8000 series above. Because the battery and phone are connected at the bottom of the phone, the two outer contacts are crossed and connect with the battery. The center contact is reversed. This is the RSCC-TAC mode connector. Note that at the battery contacts, the two outer pins supply power to the phone, the center contact is an "extra" ground. This ground needs to be shorted to the test mode connector on the phone. The easiest way to do this is to put a small piece of solder stick, alli, aluminum foil, or any other conductive material onto the contacts on the phone. Having done this carefully replace the battery and turn on the power. If you have been successful the phone will wake up in test mode.

TEST MODE PROGRAMMING:

When you first access test mode the phone's display will alternate between various status information that includes the received signal strength and channel number. The phone will operate normally in this mode. You can now select service mode by pressing the + key. The display will clear and a + will appear. Use the following procedure to program the phone:

1. Enter 550 to access programming mode.
2. The + key advances to the next step. Note that test mode programming does not have

entry number, each time you press the * key the phone will display the next data entry.

- The CLR key will clear the display to the previously stored data.
- The # key aborts programming at any step.
- On complete programming you can scroll through all entries until a * appears in the display.
- Note that one setting can contain more digits than can be displayed by the phone. In this case only the last part of the data can be seen.

TEST KITS PROGRAMMING DATA:

DATA# FOR TESTS/NUMBER DESCRIPTION

DATA#	NUMBER	DESCRIPTION
01	20002 - 11767	SETTER ID
02	8 DIGIT SWING	OPTION PROGRAMMING. SEE KITS 1 SECTION
03	10 DIGITS	SWITCH CABLE CODE & TEL#
04	2 DIGITS	STATION CALLS MASK
05	3 DIGITS	MESSAGES CANCELLED CLEARS
07	4 DIGITS	GROUP ID (10 OR 100)
08	3 DIGITS	SECURITY CODE
09	2 DIGITS	LOCK CODE
10	6 DIGITS	SERVICE LEVEL. HAVE AT 0341
11	6 DIGITS	OPTION PROGRAMMING. SEE KITS 2 SECTION
12	5 DIGITS OR 512	OPTION PROGRAMMING. SEE KITS 3 SECTION
13	0232	1st TESTS 10H
14	0234	2nd TESTS 10H
15	3 DIGITS	NUMBER PAGING CHANNEL (021 IN US)
16	6 DIGITS	OPTION PROGRAMMING. SEE KITS 4 SECTION

Steps 01 through 06 and 12 will repeat for KITS 2 if the second phone number has been enabled in step 11.

NOTES:

Take care with Motorola's use of '0*' and '1*'. Some options use '0*' as enable, some use '1*'.
There are eight digit binary fields used to select the following options:

- Steps 02 above, expanded entry 10, 110/001 for 24* system. Initial code *24* KITS-001.
- Digit 1: Local use, 0 or 1.
- Digit 2: Preferred system, 0 or 1.
- Digit 3: End to end (TDM) dialing, 1 to enable.
- Digit 4: Not used, enter 0.
- Digit 5: Repetition (speed) dialing, 1 to enable.
- Digit 6: Auxiliary channel alert, 1 to enable.
- Digit 7: Handset lock (HSL) auto mode, 2 to enable (when outgoing hands-free audio until the HSL key is pressed).
- Digit 8: Min. talk, 0 or 1.
- Step 11 above, expanded entry 10: 00002100.
- Digit 1 - 4: Not used in CLR, enter 0.
- Digit 5: Single system alert, 1 to enable (max. 6 or 5 seconds only), determined by bit 2 of step 02, set to 0* to allow user the option.
- Digit 6: Repetition dial, 1 to enable (parenting K or 0* and will dial the number stored in memory location 001).
- Digit 7: User selectable priority level, 0 to enable (allow user to set long distance priority, normal dialing restrictions).
- Digit 8: Lock function, 0 to enable (allow user to lock/un-lock the phone - it can be set to 1 the phone cannot be locked).

3. step 11 above, expanded entry 10, 00002000

Digit 1: Endset programming, 0 to enable (allow access to programming mode without having to enter test mode).
Digit 2: Second phone number (not all phones), 1 to enable.

Digit 3: Call timer screen, 1 to enable.

Digit 4: Radio system key (radio, 0 to enable).

Digit 5: Speaker volume, 1 to enable (use with volume up/down only, do not use up/down keys).

Digit 6: Emergency 1 (beep), 1 to enable.

Digit 7: User selectable system registration, 0 to enable.

Digit 8: Dial sequence (dialing), 1 to enable.

Digit 9: Step 11 above, expanded entry 10, 00002000

Digit 1: Not used, 0 only.

Digit 2: Not used, 0 only.

Digit 3: Endset programming, 1 to enable (software version 823 and later).

Digit 4: Not used, 0 only.

Digit 5: Variable area, 0 (or possible, 1 for mobile units).

Digit 6: Not used, 0 only.

Digit 7: Endset page indicator, 0 to enable (page being when an incoming call).

Digit 8: Variable area, 0 (or possible, 1 for mobile units).

Digit 9: User selectable system registration, 0 to enable.

Digit 10: Emergency 1 (beep), 1 to enable.

Digit 11: Dial sequence (dialing), 1 to enable.

Digit 12: Step 11 above, expanded entry 10, 00002000

Digit 13: Radio system key (radio, 0 to enable).

Digit 14: Call timer screen, 1 to enable.

Digit 15: Speaker volume, 1 to enable (use with volume up/down only, do not use up/down keys).

Digit 17: User selectable system registration, 0 to enable.

Digit 18: Dial sequence (dialing), 1 to enable.

Digit 19: Emergency 1 (beep), 1 to enable.

Digit 20: Step 11 above, expanded entry 10, 00002000

4. step 11 above, expanded entry 10, 00002000

Digit 1: Endset programming, 0 to enable (allow access to programming mode without having to enter test mode).
Digit 2: Second phone number (not all phones), 1 to enable.

Digit 3: Call timer screen, 1 to enable.

Digit 4: Radio system key (radio, 0 to enable).

Digit 5: Speaker volume, 1 to enable (use with volume up/down only, do not use up/down keys).

Digit 6: Emergency 1 (beep), 1 to enable.

Digit 7: User selectable system registration, 0 to enable.

Digit 8: Dial sequence (dialing), 1 to enable.

Digit 9: Step 11 above, expanded entry 10, 00002000

Digit 10: Not used, 0 only.

Digit 11: Not used, 0 only.

Digit 12: Endset programming, 1 to enable (software version 823 and later).

Digit 13: Not used, 0 only.

Digit 14: Variable area, 0 (or possible, 1 for mobile units).

Digit 15: Not used, 0 only.

Digit 16: Endset page indicator, 0 to enable (page being when an incoming call).

Digit 17: Variable area, 0 (or possible, 1 for mobile units).

Digit 18: User selectable system registration, 0 to enable.

Digit 19: Emergency 1 (beep), 1 to enable.

Digit 20: Dial sequence (dialing), 1 to enable.

Digit 21: Step 11 above, expanded entry 10, 00002000

Digit 22: Radio system key (radio, 0 to enable).

Digit 23: Call timer screen, 1 to enable.

Digit 24: Speaker volume, 1 to enable (use with volume up/down only, do not use up/down keys).

Digit 25: Emergency 1 (beep), 1 to enable.

Digit 26: Dial sequence (dialing), 1 to enable.

Digit 27: Step 11 above, expanded entry 10, 00002000

Digit 28: Not used, 0 only.

1. Press **LOCK** until the phone beeps.
2. Press **4** to select **RESET**.
3. Press **1** to select **RESET**.
4. Press the first **RESET** again 1.5 sec. and press **4** to continue to enter additional **979** characters and add cycles. **979** for **KEY 2** is required.
5. If an incorrect entry is made outside the range of **0000-1761** the display will not advance. Press **OK** and **EX-EJECT** use a setting of **4000** for very unusual keys.
6. When the last entry has been made press **4** to store and press **4** to exit, turn off phone.

LOCK/UNLOCK DECODES:

Phones with **CODE** buttons: Press **LOCK** for at least 1/2 a second. Then with an **END** button, press **END** for 5, note that 5 has the letters **Q,S**, and 4 has **W,E**. Then with no **END** or **LOCK** button: Press **Control 5**, which is the black volume button on the side of the handset.

SYSTEM SELECT PROCEDURE:

Phones with an **END** button: Press **END**, then **4** to select, **END** to store. Phones with no **END** button: Press **Control 5**, then **4** to select, **4** to store.

Options store:

OPTION: **SELECTED** was selected with system selection and **END** or **LOCK** selected. **SOLO** also can **SOLO** was **SELECTED**.

NOTE: **4** for **Q,S**
NOTE: **5** for **W,E**

NOTE: **END** only

NOTE: **LOCK** only

General Notes:

(These are typical options, some phones vary. Options only available on newer models and does not appear previous programmed, see above.)

PROGRAMMING: Most Motorola handsets are interchangeable. When a handset is used with a transceiver other than the one it was designed for the display will show **STANDBY**. If the phone has a **CODE** and the buttons may not work, the buttons in the original handset did not have an **END** or **SOLO** button and the replacement does, you will have to use the control **4** for control + sequence to select memory and **4** for system select procedure.

PROGRAMMING:

007785: (these are dual band units.)
 - The **END** button is 165 decimal & 35 hex.
NOKIA: F11-525 Series

AM PROGRAMMING:

007785: (these are dual band units.)
 - The **END** button is 165 decimal & 35 hex.

Motorola:
 - Enter **1 0 1 4 5 6 7 8 9 0 0** when asked for the security code 1 2 3 4 5 1 6, the factory default.
 - If the above was answered the phone will display **WORLD IP INFO PRE-1** skip to step 5 to **PROGRAM 2**, or **OPTION** entries 6-8 to switch to **WORLD 2**.
 - Press **END** and the phone will display **OPT 2/2500**.
 - Press **END** to store and increase each step.
 - The **END** button ends digit option.
 Press **END** to exit programming having entered all steps.

TRANSACTIONS DATA			
STEP	LOG DOTS/SEGMENT	DISPLAY	DESCRIPTION
0.1	00000 - 32060	00-11	SYSTEM 1.0
0.2	0 CR 1	NEW YORK	NEW YORK
0.3	0 CR 0	LEGAL OPT	LEGAL/TELE MARK
0.4	10 DEC1985	PHOENIX	KIN (ARRA CRK & 784)
0.5	08 OCT87	00 CLASS	STANDARD CLASS PARK
0.6	311 CR 354	TRAILING CR	INDUSTRIAL PARK/100' CHAMPS
0.7	2 DEC1985	01 LOCAL CLASS	ACCESS OVERLOAD CLASS
0.8	A OR B	TELE LOG	REGISTERED SUBSCR (800 NUMBER)
0.9	2 DEC1985	GROUP ID	GROUP ID (10 IN 1985)
1.0	5 DIGITS	SECURITY	SECURITY CODE
1.1	1000000	1 DATE	CMP 9007 20 03200800
1.2	1000000	1 DATE	INITIALIZATION
1.3		PERIOD SEC. CLR 20 MINT	
LOOP: SEL LOG, DECIMAL: Enter four digit code.			
SYSTEM SELECT: SEL 1 when 1 to access, A = A only, B = B only, S = Precision print, R =			
None only.			
MEDIA END, SC2100			
NOTE: There is a single 1000 unit.			
One DEC precision to 100 decimal to 100 base.			
MEDIA: 611-515-5553			
END PROGRAMMING:			
1. Type PGM100.			
2. Enter "1 T 7 * 3 0 D 1 + 1 E 1 L 1 *", where TLL1 is the lock code, the factory default is 127 12246. If the lock code is not known and must be guessed the three codes in the program without a Nokia service handset.			
3. Press SEL to store data and switch between parameter names and values.			
4. Press CLR to delete an entry.			
5. Press END to start programming.			
6. At any time press SEL END to exit and complete programming. The phone will ring.			

CODE	KEY	FUNCTION	DISPLAY	DESCRIPTION
01	00000 - 12345	SD 1P	SD 1P	SDISTER TO
02	0 - 08 1	ACCESS	ACCESS	ACCESS NUMBER (PLA PASS)
03	0 - 08 1	LOCK	LOCK	LOCK (PLA NAME)
04	0 - 08 1	THROB	THROB	PLA (PLA CODE 5 - 1011)
05	05 00008	CLASS	CLASS	STANDARD CLASS PASS
06	213 08 324	PASS	PASS	INITIAL ENGINE MANUFACT
07	2	LOCKED	LOCKED	LOCKED (PLA CLASS)
08	2	UNLOCKED	UNLOCKED	UNLOCKED (10 IN PLA)
09	4	LOCKED	LOCKED	LOCK (10 IN PLA)

Subj: TOS Violation Report
Date: 96-07-18 02:08:22 EDT
From: CA1Watch5
To: XXXXXX

Dear Member,

This e-mail has been sent to all of your screen names. If you have already read it under another screen name, please disregard this copy.

A screen name associated with your master account recently entered the chat room "warez". This chat room is reportedly being used to illegally trade software in violation of U.S. law and AOL's Terms of Service. In accordance with our Terms of Service, AOL reserves the right to treat as public any private chat room whose directory or room name is published or becomes generally known or available. Please be advised that members found in these rooms may lose their AOL membership without further warning.

If you entered this room in response to offers of "free online time", "upgrades of AOL", or the like, you should be aware that these offers are fraudulent. AOL does not issue credit through private rooms, and upgrades of our software are only available in designated free areas of AOL. If you come across any of these false offers, we would appreciate it if you would report them to the Community Action Team (keyword: TOS). If you believe you have entered such a room by accident, please contact the Community Action Team as soon as possible (keyword: TOS).

We remind you that the AOL community depends on our members abiding by our community rules. If you are unfamiliar with these rules, please take the time to read AOL's Terms of Service, which is always available free online by going to keyword "TOS".

If you have any questions or comments regarding this situation, please feel free to contact us at the screen name TOSEMAIL1.

Regards,
The Community Action Team
America Online, Inc.

If you dare to enter rooms with names like "warez", "freebies", "dive", or even hacker related subjects, your account will get the following warning. If you enter the room a second time, your account will get killed. Where else but AOL can you get into trouble by going into publicly available areas on their own system?

Subj: Terms of Service
Date: 96-06-04 14:40:30 EDT
From: TOSNames1
To: FutureFLCT

Dear Member,

As this mail has been sent to all of your screen names, you may have already read it under another screen name. If so, please disregard this copy.

After having reviewed the screen name FutureFLCT we have determined that it does not comply with our Terms of Service (which prohibit the use of vulgar or sexually oriented language, harassment, discussion of illegal activities, conducting commercial business, impersonation of other living persons other than yourself, and other activities that may impair the enjoyment of our members).

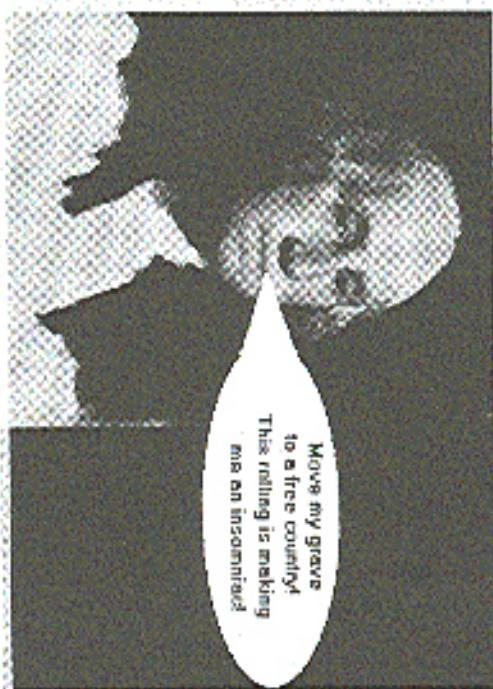
We make every effort to consider what may be the personal preferences of the individual when reviewing screen names. However, we still request that you delete this screen name as soon as possible. Should the screen name not be deleted, we have no alternative but to take additional action which may involve account termination.

A note of this incident was placed on your account history. Our records show that this is the first warning on your account, and we suggest you review the Terms of Service by going to keyword "TOS".

If you have any questions or comments regarding this situation, please feel free to write.

Regards,
Gene
Community Action Team
America Online, Inc.

When using AOL, you should be very careful what you decide to name yourself. You never know when you might offend someone. On AOL, people get offended quite often.



Sparti Parks Store og Foreldres Gruppe Hverdagsgruppe

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United States
Department of
Injustice



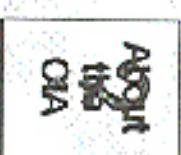
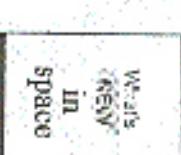
757

Welcome to the Central Stupidity Agency

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STOP LYING BO SKARINDER!!

Please choose one of the all the following categories below:



Power 12000 customers world wide. See UOL & UOLi on the Internet, America's largest Internet Service Provider world wide Web site... <http://www.uol.com> We already have you in all four continents.

- The Strategic Human Assessment Protocol - SCHA Protocol
- The Strategic Human Assessment Protocol - SCHA Protocol
- Evaluation - The Flashback

And guess what? It happened AGAIN! On September 19, 1996 a bunch of Swedish hackers hit the CIA home page, apparently as a protest against an ongoing prosecution in their country. (Bo Skarinder is the name of a Swedish prosecutor.) Again, this entire page is available on www.2600.com in its original form.

